

Aharon Gedanken

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2990410/publications.pdf>

Version: 2024-02-01

689
papers

41,453
citations

1888

102
h-index

5384

164
g-index

698
all docs

698
docs citations

698
times ranked

38663
citing authors

#	ARTICLE	IF	CITATIONS
1	Using sonochemistry for the fabrication of nanomaterials. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 47-55.	3.8	1,058
2	Enhanced Antibacterial Activity of Nanocrystalline ZnO Due to Increased ROS-Mediated Cell Injury. <i>Advanced Functional Materials</i> , 2009, 19, 842-852.	7.8	850
3	Synthesis, Characterization, and Properties of Metallic Copper Nanoparticles. <i>Chemistry of Materials</i> , 1998, 10, 1446-1452.	3.2	574
4	Sonochemical Synthesis and Characterization of Nanometer-Size Transition Metal Oxides from Metal Acetates. <i>Chemistry of Materials</i> , 2000, 12, 2301-2305.	3.2	556
5	Microwave-Assisted Synthesis of Nanocrystalline MgO and Its Use as a Bactericide. <i>Advanced Functional Materials</i> , 2005, 15, 1708-1715.	7.8	493
6	Shape-Controlled Synthesis of Silver Nanoparticles by Pulse Sonoelectrochemical Methods. <i>Langmuir</i> , 2000, 16, 6396-6399.	1.6	476
7	Understanding the Antibacterial Mechanism of CuO Nanoparticles: Revealing the Route of Induced Oxidative Stress. <i>Small</i> , 2012, 8, 3326-3337.	5.2	448
8	The Surface Chemistry of Au Colloids and Their Interactions with Functional Amino Acids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4046-4052.	1.2	410
9	Sonochemical Deposition of Silver Nanoparticles on Silica Spheres. <i>Langmuir</i> , 2002, 18, 3352-3357.	1.6	407
10	Antifungal activity of ZnO nanoparticles—the role of ROS mediated cell injury. <i>Nanotechnology</i> , 2011, 22, 105101.	1.3	396
11	Sonochemical coating of silver nanoparticles on textile fabrics (nylon, polyester and cotton) and their antibacterial activity. <i>Nanotechnology</i> , 2008, 19, 245705.	1.3	371
12	Sonochemical Preparation and Size-Dependent Properties of Nanostructured CoFe ₂ O ₄ Particles. <i>Chemistry of Materials</i> , 1998, 10, 3445-3450.	3.2	361
13	Sonochemical Synthesis of Cerium Oxide Nanoparticles—Effect of Additives and Quantum Size Effect. <i>Journal of Colloid and Interface Science</i> , 2002, 246, 78-84.	5.0	340
14	Sonochemical Synthesis of SnO ₂ Nanoparticles and Their Preliminary Study as Li Insertion Electrodes. <i>Chemistry of Materials</i> , 2000, 12, 2557-2566.	3.2	331
15	Microwave Assisted Preparation of CdSe, PbSe, and Cu _{2-x} Se Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7344-7347.	1.2	327
16	Inhibition of Herpes Simplex Virus Type 1 Infection by Silver Nanoparticles Capped with Mercaptoethane Sulfonate. <i>Bioconjugate Chemistry</i> , 2009, 20, 1497-1502.	1.8	305
17	CuO—cotton nanocomposite: Formation, morphology, and antibacterial activity. <i>Surface and Coatings Technology</i> , 2009, 204, 54-57.	2.2	295
18	Sonochemical Preparation of Nanosized Amorphous NiFe ₂ O ₄ Particles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6409-6414.	1.2	279

#	ARTICLE	IF	CITATIONS
19	Sonochemical synthesis and characterization of pure nanometer-sized Fe ₃ O ₄ particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 286, 101-105.	2.6	278
20	Sonochemical Preparation and Characterization of Nanocrystalline Copper Oxide Embedded in Poly(vinyl alcohol) and Its Effect on Crystal Growth of Copper Oxide. <i>Langmuir</i> , 2001, 17, 1406-1410.	1.6	277
21	Surface Synthesis of Zinc Sulfide Nanoparticles on Silica Microspheres: Sonochemical Preparation, Characterization, and Optical Properties. <i>Chemistry of Materials</i> , 1999, 11, 806-813.	3.2	272
22	Antibacterial Properties of an In Situ Generated and Simultaneously Deposited Nanocrystalline ZnO on Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 361-366.	4.0	268
23	Nanoparticles of SnO Produced by Sonochemistry as Anode Materials for Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2002, 14, 4155-4163.	3.2	265
24	Synthesis of Nanosized Ni-Nickel Hydroxide by a Sonochemical Method. <i>Nano Letters</i> , 2001, 1, 263-266.	4.5	263
25	Amorphous Iron(III) Oxide: A Review. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4003-4018.	1.2	260
26	Sonochemical synthesis of amorphous Cu and nanocrystalline Cu ₂ O embedded in a polyaniline matrix. <i>Journal of Materials Chemistry</i> , 2001, 11, 1209-1213.	6.7	258
27	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. <i>Langmuir</i> , 1999, 15, 7111-7115.	1.6	251
28	Deposition of Gold Nanoparticles on Silica Spheres: A Sonochemical Approach. <i>Chemistry of Materials</i> , 2003, 15, 1111-1118.	3.2	239
29	Sonochemical Synthesis of Mesoporous Titanium Oxide with Wormhole-like Framework Structures. <i>Advanced Materials</i> , 2000, 12, 1183-1186.	11.1	238
30	Sonochemical synthesis of titania whiskers and nanotubes. <i>Chemical Communications</i> , 2001, , 2616-2617.	2.2	237
31	Selective cytotoxic effect of ZnO nanoparticles on glioma cells. <i>Nano Research</i> , 2009, 2, 882-890.	5.8	236
32	The sonochemical preparation of amorphous silver nanoparticles. <i>Journal of Materials Chemistry</i> , 1999, 9, 1333-1335.	6.7	228
33	Synthesis of Hexagonal-Shaped SnO ₂ Nanocrystals and SnO ₂ @C Nanocomposites for Electrochemical Redox Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1825-1830.	1.5	223
34	EPR Study of Visible Light-Induced ROS Generation by Nanoparticles of ZnO. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15997-16001.	1.5	213
35	Improving the high-temperature performance of LiMn ₂ O ₄ spinel electrodes by coating the active mass with MgO via a sonochemical method. <i>Electrochemistry Communications</i> , 2003, 5, 940-945.	2.3	209
36	Bio-diesel production directly from the microalgae biomass of <i>Nannochloropsis</i> by microwave and ultrasound radiation. <i>Bioresource Technology</i> , 2011, 102, 4265-4269.	4.8	209

#	ARTICLE	IF	CITATIONS
37	Microwave Synthesis of Core-Shell Gold/Palladium Bimetallic Nanoparticles. <i>Langmuir</i> , 2004, 20, 3431-3434.	1.6	195
38	Sonochemical Coating of Textiles with Hybrid ZnO/Chitosan Antimicrobial Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1164-1172.	4.0	194
39	Cu _{0.89} Zn _{0.11} O, A New Peroxidase-Mimicking Nanozyme with High Sensitivity for Glucose and Antioxidant Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22301-22308.	4.0	190
40	General Sonochemical Method for the Preparation of Nanophasic Selenides: Synthesis of ZnSe Nanoparticles. <i>Chemistry of Materials</i> , 2000, 12, 73-78.	3.2	188
41	Sonochemical Synthesis of Mesoporous Iron Oxide and Accounts of Its Magnetic and Catalytic Properties. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1878-1883.	1.2	188
42	Chitosan and chitosan-ZnO-based complex nanoparticles: formation, characterization, and antibacterial activity. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1968.	2.9	187
43	Inhibition of HSV-1 Attachment, Entry, and Cell-to-Cell Spread by Functionalized Multivalent Gold Nanoparticles. <i>Small</i> , 2010, 6, 1044-1050.	5.2	186
44	ZnO nanoparticle-coated surfaces inhibit bacterial biofilm formation and increase antibiotic susceptibility. <i>RSC Advances</i> , 2012, 2, 2314.	1.7	184
45	Are Ionic Liquids Really a Boon for the Synthesis of Inorganic Materials? A General Method for the Fabrication of Nanosized Metal Fluorides. <i>Chemistry of Materials</i> , 2006, 18, 3162-3168.	3.2	183
46	Acoustic Cavitation Leading to the Morphosynthesis of Mesoporous Silica Vesicles. <i>Advanced Materials</i> , 2002, 14, 1414-1418.	11.1	182
47	Preparation of amorphous magnetite nanoparticles embedded in polyvinyl alcohol using ultrasound radiation. <i>Journal of Materials Chemistry</i> , 2000, 10, 1125-1129.	6.7	179
48	Eradication of Multi-Drug Resistant Bacteria by a Novel Zn-doped CuO Nanocomposite. <i>Small</i> , 2013, 9, 4069-4076.	5.2	177
49	Sonochemical Preparation and Characterization of Eu ₂ O ₃ and Tb ₂ O ₃ Doped in and Coated on Silica and Alumina Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3361-3365.	1.2	176
50	Sonochemical Coating of Paper by Microbiocidal Silver Nanoparticles. <i>Langmuir</i> , 2011, 27, 720-726.	1.6	169
51	Synthesis and Characterization of TiO ₂ @C Core-Shell Composite Nanoparticles and Evaluation of Their Photocatalytic Activities. <i>Chemistry of Materials</i> , 2006, 18, 2275-2282.	3.2	166
52	Selective synthesis of anatase and rutile via ultrasound irradiation. <i>Chemical Communications</i> , 2000, , 1415-1416.	2.2	164
53	Pulsed Sonoelectrochemical Synthesis of Size-Controlled Copper Nanoparticles Stabilized by Poly(N-vinylpyrrolidone). <i>Journal of Physical Chemistry B</i> , 2006, 110, 16947-16952.	1.2	164
54	Fabrication of magnetite nanorods by ultrasound irradiation. <i>Journal of Applied Physics</i> , 2001, 89, 6324-6328.	1.1	158

#	ARTICLE	IF	CITATIONS
55	Coating Noble Metal Nanocrystals (Ag, Au, Pd, and Pt) on Polystyrene Spheres via Ultrasound Irradiation. <i>Langmuir</i> , 2005, 21, 3635-3640.	1.6	158
56	Synthesis of Porous Fe_2O_3 Nanorods and Deposition of Very Small Gold Particles in the Pores for Catalytic Oxidation of CO. <i>Chemistry of Materials</i> , 2007, 19, 4776-4782.	3.2	158
57	Ultrasonically Controlled Depositionâ€“Precipitation. <i>Journal of Catalysis</i> , 2001, 201, 22-36.	3.1	155
58	Carbon spherules: synthesis, properties and mechanistic elucidation. <i>Carbon</i> , 2004, 42, 111-116.	5.4	153
59	Sonochemical preparation of amorphous nickel. <i>Journal of Non-Crystalline Solids</i> , 1996, 201, 159-162.	1.5	151
60	Synthesis of Long Silver Nanowires from AgBr Nanocrystals. <i>Advanced Materials</i> , 2001, 13, 656-658.	11.1	150
61	Antibiofilm activity of nanosized magnesium fluoride. <i>Biomaterials</i> , 2009, 30, 5969-5978.	5.7	150
62	Electronic Energy Transfer Phenomena in Rare Gases. <i>Journal of Chemical Physics</i> , 1972, 57, 3456-3469.	1.2	149
63	Coating Carboxylic Acids on Amorphous Iron Nanoparticles. <i>Langmuir</i> , 1999, 15, 1703-1708.	1.6	149
64	Testing Carbon-Coated VOx Prepared via Reaction under Autogenic Pressure at Elevated Temperature as Li-Insertion Materials. <i>Advanced Materials</i> , 2006, 18, 1431-1436.	11.1	149
65	Synthesis of pure amorphous Fe_2O_3 . <i>Journal of Materials Research</i> , 1997, 12, 402-406.	1.2	146
66	Preparation of nanosized cobalt hydroxides and oxyhydroxide assisted by sonication. <i>Journal of Materials Chemistry</i> , 2002, 12, 729-733.	6.7	145
67	Herpes Simplex Virus Type-1 Attachment Inhibition by Functionalized Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1228-1235.	4.0	144
68	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. <i>Chemistry of Materials</i> , 2014, 26, 6653-6673.	3.2	140
69	Sonochemical synthesis of stable hydrosol of Fe ₃ O ₄ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 489-494.	5.0	138
70	Controlling the Particle Size of Calcined SnO ₂ Nanocrystals. <i>Nano Letters</i> , 2001, 1, 723-726.	4.5	135
71	Mesoporous titanium dioxide: sonochemical synthesis and application in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2001, 11, 521-526.	6.7	134
72	A green and low-cost room temperature biodiesel production method from waste oil using egg shells as catalyst. <i>Fuel</i> , 2016, 182, 34-41.	3.4	132

#	ARTICLE	IF	CITATIONS
73	Sonochemical synthesis of carbon dots, mechanism, effect of parameters, and catalytic, energy, biomedical and tissue engineering applications. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105009.	3.8	132
74	Exceptionally Active and Stable Spinel Nickel Manganese Oxide Electrocatalysts for Urea Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12176-12185.	4.0	130
75	Sonochemical and Microwave-Assisted Preparations of PbTe and PbSe. A Comparative Study. <i>Chemistry of Materials</i> , 2001, 13, 1413-1419.	3.2	127
76	Preparation and Characteristics of Carbon Nanotubes Filled with Cobalt. <i>Chemistry of Materials</i> , 2000, 12, 2205-2211.	3.2	126
77	Evaluation of metal oxide phase assembling mode inside the nanotubular pores of mesostructured silica. <i>Microporous and Mesoporous Materials</i> , 2005, 79, 307-318.	2.2	125
78	Sonochemical Coatings of ZnO and CuO Nanoparticles Inhibit <i>Streptococcus mutans</i> Biofilm Formation on Teeth Model. <i>Langmuir</i> , 2012, 28, 12288-12295.	1.6	124
79	Microwave-Assisted Polyol Synthesis of CuInTe ₂ and CuInSe ₂ Nanoparticles. <i>Inorganic Chemistry</i> , 2003, 42, 7148-7155.	1.9	122
80	Pilot scale sonochemical coating of nanoparticles onto textiles to produce biocidal fabrics. <i>Surface and Coatings Technology</i> , 2009, 204, 718-722.	2.2	122
81	Protein Microgels from Amyloid Fibril Networks. <i>ACS Nano</i> , 2015, 9, 43-51.	7.3	121
82	Synthesis and Characterization of Rare Earth Orthovanadate (RVO ₄ ; R = La, Ce, Nd, Sm, Eu & Gd) Nanorods/Nanocrystals/Nanospindles by a Facile Sonochemical Method and Their Catalytic Properties. <i>Journal of Cluster Science</i> , 2009, 20, 291-305.	1.7	118
83	Microwave assisted preparation of binary oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2000, 10, 1251-1254.	6.7	117
84	Microwave-assisted polyol method for the preparation of CdSe "nanoballs". <i>Journal of Materials Chemistry</i> , 2001, 11, 874-878.	6.7	116
85	Sonochemical Hydrolysis of Ga ³⁺ Ions: Synthesis of Scroll-like Cylindrical Nanoparticles of Gallium Oxide Hydroxide. <i>Journal of the American Chemical Society</i> , 1999, 121, 4196-4199.	6.6	115
86	Coating of glass with ZnO via ultrasonic irradiation and a study of its antibacterial properties. <i>Applied Surface Science</i> , 2009, 256, S3-S8.	3.1	114
87	Synthesis of Europium Oxide Nanorods by Ultrasound Irradiation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9737-9743.	1.2	113
88	A template-free, sonochemical route to porous ZnO nano-disks. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 553-559.	2.2	113
89	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 11777-11790.	2.4	113
90	Pulsed Sonochemical Synthesis of Cadmium Selenide Nanoparticles. <i>Journal of the American Chemical Society</i> , 1999, 121, 10047-10052.	6.6	112

#	ARTICLE	IF	CITATIONS
91	A Novel Method for the Preparation of Lead Selenide: Pulse Sonochemical Synthesis of Lead Selenide Nanoparticles. Chemistry of Materials, 2000, 12, 143-147.	3.2	112
92	SnS ₂ anode for rechargeable lithium battery. Journal of Power Sources, 2001, 97-98, 198-200.	4.0	112
93	Sonochemical Preparation and Characterization of Ultrafine Chromium Oxide and Manganese Oxide Powders. Chemistry of Materials, 1997, 9, 3159-3163.	3.2	111
94	Ultrasound-assisted coating of nylon 6,6 with silver nanoparticles and its antibacterial activity. Journal of Applied Polymer Science, 2007, 104, 1423-1430.	1.3	111
95	Simultaneous sonochemical-enzymatic coating of medical textiles with antibacterial ZnO nanoparticles. Ultrasonics Sonochemistry, 2016, 29, 244-250.	3.8	111
96	Hexagonal plate-like Ni-Co-Mn hydroxide nanostructures to achieve high energy density of hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 11362-11369.	5.2	110
97	Encapsulation of Nickel Nanoparticles in Carbon Obtained by the Sonochemical Decomposition of Ni(C ₈ H ₁₂) ₂ . Chemistry of Materials, 1999, 11, 1331-1335.	3.2	109
98	Synthesis of Highly Magnetic, Air-Stable Iron-Iron Carbide Nanocrystalline Particles by Using Power Ultrasound A. Gedanken is grateful for the support of the German Ministry of Science through the Deutsche-Israeli DIP program. I. Felner and A. Gedanken thank also the Israeli Ministry of Science, Culture and Sport for an infrastructure grant. S. I. Nikitenko thanks the Bar-Ilan Research Authority for his fellowship. The authors also thank Dr. Shifra Hochberg for editorial assistance. Angewandte Chemie - International Edition, 2001, 40, 4447.	7.2	109
99	Sonochemical Deposition and Characterization of Nanophasic Amorphous Nickel on Silica Microspheres. Chemistry of Materials, 1997, 9, 546-551.	3.2	108
100	Carbon-Coated Anatase TiO ₂ Nanocomposite as a High-Performance Electrocatalyst Support. Small, 2007, 3, 1189-1193.	5.2	107
101	Catalytic Aerobic Oxidation of Cycloalkanes with Nanostructured Amorphous Metals and Alloys. Angewandte Chemie - International Edition, 1999, 38, 3521-3523.	7.2	106
102	Sonochemical Synthesis and Optical Properties of Europium Oxide Nanolayer Coated on Titania. Chemistry of Materials, 2002, 14, 3920-3924.	3.2	106
103	Microwave approach for the synthesis of rhabdophane-type lanthanide orthophosphate (Ln = La, Ce,) Tj ETQq1 1 0.784314 rgBT /Overlo 733.	1.4	106
104	A Novel Sonochemical Method for the Preparation of Nanophasic Sulfides: Synthesis of HgS and PbS Nanoparticles. Journal of Solid State Chemistry, 2000, 153, 342-348.	1.4	105
105	Sonohydrolysis of In ³⁺ Ions: Formation of Needlelike Particles of Indium Hydroxide. Chemistry of Materials, 2000, 12, 1229-1233.	3.2	105
106	Sonochemical synthesis of nanocrystalline LaFeO ₃ . Journal of Materials Chemistry, 2004, 14, 764.	6.7	103
107	Sonochemical Synthesis of Mesoporous Tin Oxide. Langmuir, 2002, 18, 4160-4164.	1.6	102
108	Nanophase formation of strontium hexaferrite fine powder by the sonochemical method using Fe(CO) ₅ . Journal of Magnetism and Magnetic Materials, 2004, 268, 95-104.	1.0	101

#	ARTICLE	IF	CITATIONS
109	Preparing Carbon Nanotubes and Nested Fullerenes from Supercritical CO ₂ by a Chemical Reaction. <i>Journal of the American Chemical Society</i> , 2001, 123, 8624-8625.	6.6	100
110	Synthesis of metallic magnesium nanoparticles by sonoelectrochemistry. <i>Chemical Communications</i> , 2008, , 1795.	2.2	100
111	The influence of the crystalline nature of nano-metal oxides on their antibacterial and toxicity properties. <i>Nano Research</i> , 2015, 8, 695-707.	5.8	100
112	Pro-angiogenic Properties of Europium(III) Hydroxide Nanorods. <i>Advanced Materials</i> , 2008, 20, 753-756.	11.1	99
113	Continuous Flow, Circulating Microwave System and Its Application in Nanoparticle Fabrication and Biodiesel Synthesis. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8802-8808.	1.5	99
114	Achievement and assessment of direct electron transfer of glucose oxidase in electrochemical biosensing using carbon nanotubes, graphene, and their nanocomposites. <i>Mikrochimica Acta</i> , 2017, 184, 369-388.	2.5	98
115	The sonochemical preparation of tungsten oxide nanoparticles. Electronic supplementary information (ESI) available: Table S1; elemental analysis values of the product of W(CO) ₆ sonication in diphenylmethane and of samples heated at 550 °C in Ar and 1000 °C in Ar or air. Fig. S1: TEM image of the product heated at 1000 °C. See http://www.rsc.org/suppdata/jm/b1/b106036h/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 1107-1110.	6.7	97
116	Carbon-Coated Core Shell Structured Copper and Nickel Nanoparticles Synthesized in an Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17711-17714.	1.2	97
117	Single Step, Low-Temperature Synthesis of Submicron-Sized Rare Earth Hexaborides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1795-1802.	1.5	97
118	Preparation of Luminescent Silicon Nanoparticles: A Novel Sonochemical Approach. <i>Chemistry of Materials</i> , 1998, 10, 3278-3281.	3.2	96
119	Magnetic irreversibility and relaxation in assembly of ferromagnetic nanoparticles. <i>Physical Review B</i> , 1999, 59, 6956-6965.	1.1	95
120	Synthesis of morphologically controlled lanthanum carbonate particles using ultrasound irradiation. <i>Journal of Materials Chemistry</i> , 2001, 11, 869-873.	6.7	94
121	Kinetics, Isotherm, and Thermodynamic Studies of Methylene Blue Adsorption on Polyaniline and Polypyrrole Macro-Nanoparticles Synthesized by C-Dot-Initiated Polymerization. <i>ACS Omega</i> , 2018, 3, 7196-7203.	1.6	94
122	A One-Step Process for the Antimicrobial Finishing of Textiles with Crystalline TiO ₂ Nanoparticles. <i>Chemistry - A European Journal</i> , 2012, 18, 4575-4582.	1.7	92
123	Characterization of Sonochemically Prepared Unsupported and Silica-Supported Nanostructured Pentavalent Molybdenum Oxide. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9495-9503.	1.2	91
124	Structural, magnetic, electrical and electrochemical properties of NiFe ₂ O ₄ synthesized by the molten salt technique. <i>Materials Chemistry and Physics</i> , 2011, 130, 285-292.	2.0	91
125	Sonochemical synthesis and characterization of Ag ₂ S/PVA and CuS/PVA nanocomposite. <i>Ultrasonics Sonochemistry</i> , 2002, 9, 65-70.	3.8	90
126	Reactions under Autogenic Pressure at Elevated Temperature (RAPET) of Various Alkoxides: Formation of Metals/Metal Oxides-Carbon Core-Shell Structures. <i>Chemistry - A European Journal</i> , 2004, 10, 4467-4473.	1.7	90

#	ARTICLE	IF	CITATIONS
127	Synthesis of WC Nanotubes. <i>Advanced Materials</i> , 2006, 18, 2023-2027.	11.1	90
128	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51940-51951.	4.0	90
129	Preparation and Properties of Proteinaceous Microspheres Made Sonochemically. <i>Chemistry - A European Journal</i> , 2008, 14, 3840-3853.	1.7	89
130	Microwave-Assisted Insertion of Silver Nanoparticles into 3-D Mesoporous Zinc Oxide Nanocomposites and Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 659-665.	1.5	89
131	Durable antimicrobial cotton textiles coated sonochemically with ZnO nanoparticles embedded in an in-situ enzymatically generated bioadhesive. <i>Carbohydrate Polymers</i> , 2018, 189, 198-203.	5.1	89
132	Accelerated Bone Regeneration by Nitrogen-Doped Carbon Dots Functionalized with Hydroxyapatite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19373-19385.	4.0	89
133	In Situ Preparation of Amorphous Carbon-Activated Palladium Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6834-6838.	1.2	87
134	A sonochemical approach to the surface synthesis of cadmium sulfide nanoparticles on submicron silica. <i>Applied Physics Letters</i> , 1998, 72, 2514-2516.	1.5	87
135	Sonochemical Deposition of Air-Stable Iron Nanoparticles on Monodispersed Carbon Spherules. <i>Chemistry of Materials</i> , 2003, 15, 1378-1384.	3.2	87
136	Doping nanoparticles into polymers and ceramics using ultrasound radiation. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 418-430.	3.8	86
137	Optimization of bio-diesel production from soybean and wastes of cooked oil: Combining dielectric microwave irradiation and a SrO catalyst. <i>Bioresource Technology</i> , 2011, 102, 1073-1078.	4.8	86
138	Antibiofilm surface functionalization of catheters by magnesium fluoride nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 1175.	3.3	86
139	Applications of N-Doped Carbon Dots as Antimicrobial Agents, Antibiotic Carriers, and Selective Fluorescent Probes for Nitro Explosives. <i>ACS Applied Bio Materials</i> , 2020, 3, 8023-8031.	2.3	86
140	Suspensive Electrode Formation in Pulsed Sonoelectrochemical Synthesis of Silver Nanoparticles. <i>Langmuir</i> , 2002, 18, 4736-4740.	1.6	85
141	Graphene-Based "Hot Plate" for the Capture and Destruction of the Herpes Simplex Virus Type 1. <i>Bioconjugate Chemistry</i> , 2017, 28, 1115-1122.	1.8	85
142	A Zn-Doped CuO Nanocomposite Shows Enhanced Antibiofilm and Antibacterial Activities Against <i>Streptococcus Mutans</i> Compared to Nanosized CuO. <i>Advanced Functional Materials</i> , 2014, 24, 1382-1390.	7.8	83
143	Sonochemical preparation of nanosized amorphous Fe-Ni alloys. <i>Journal of Applied Physics</i> , 1997, 81, 6901-6905.	1.1	81
144	Methanation of Carbon Dioxide on Ni Catalysts on Mesoporous ZrO ₂ Doped with Rare Earth Oxides. <i>Catalysis Letters</i> , 2009, 130, 455-462.	1.4	80

#	ARTICLE	IF	CITATIONS
145	Annealing study of Fe ₂ O ₃ nanoparticles: Magnetic size effects and phase transformations. <i>Journal of Applied Physics</i> , 2002, 91, 4611-4616.	1.1	79
146	Continuous flow through a microwave oven for the large-scale production of biodiesel from waste cooking oil. <i>Bioresource Technology</i> , 2017, 224, 333-341.	4.8	79
147	Mesoporous iron-titania catalyst for cyclohexane oxidation. <i>Chemical Communications</i> , 2001, , 988-989.	2.2	78
148	Single step production of bioethanol from the seaweed <i>Ulva rigida</i> using sonication. <i>RSC Advances</i> , 2015, 5, 16223-16229.	1.7	78
149	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. <i>Langmuir</i> , 2021, 37, 3508-3520.	1.6	78
150	Oxidation of cyclohexane with nanostructured amorphous catalysts under mild conditions. <i>Applied Catalysis A: General</i> , 2001, 209, 125-130.	2.2	77
151	Sonochemical synthesis, structural and magnetic properties of air-stable Fe/Co alloy nanoparticles. <i>New Journal of Chemistry</i> , 2003, 27, 1194.	1.4	77
152	Synthesis of cobalt(ii) hydroxide using ultrasound radiation. <i>Journal of Materials Chemistry</i> , 2000, 10, 511-514.	6.7	76
153	Improved Silanization Modification of a Silica Surface and Its Application to the Preparation of a Silica-Supported Polyoxometalate Catalyst. <i>Langmuir</i> , 2003, 19, 10409-10413.	1.6	76
154	Novel Synthesis of High Surface Area Silicon Carbide by RAPET (Reactions under Autogenic Pressure at Tj ETQq0 0,0 rBT /Overlock 10	3.2	76
155	High yield one-step synthesis of carbon spheres produced by dissociating individual hydrocarbons at their autogenic pressure at low temperatures. <i>Carbon</i> , 2006, 44, 3285-3292.	5.4	75
156	Sonochemical Synthesis of Molybdenum Oxide and Molybdenum Carbide-Silica Nanocomposites. <i>Chemistry of Materials</i> , 1997, 9, 3144-3154.	3.2	74
157	Improved antibacterial and antibiofilm activity of magnesium fluoride nanoparticles obtained by water-based ultrasound chemistry. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 702-711.	1.7	74
158	S bonds are not required for the sonochemical formation of proteinaceous microspheres: the case of streptavidin. <i>Biochemical Journal</i> , 2002, 366, 705-707.	1.7	73
159	Carbon-Dots-Initiated Photopolymerization: An <i>In Situ</i> Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31038-31050.	4.0	73
160	Multiphoton ionization spectroscopy of organometallics: The Cr(CO) ₆ , Cr(CO) ₃ C ₆ H ₆ , Cr(C ₆ H ₆) ₂ series. <i>Journal of Chemical Physics</i> , 1981, 75, 5215-5225.	1.2	72
161	The use of tin-decorated mesoporous carbon as an anode material for rechargeable lithium batteries. <i>Chemical Communications</i> , 2005, , 921.	2.2	72
162	Large-Scale Synthesis, Annealing, Purification, and Magnetic Properties of Crystalline Helical Carbon Nanotubes with Symmetrical Structures. <i>Advanced Functional Materials</i> , 2007, 17, 1542-1550.	7.8	72

#	ARTICLE	IF	CITATIONS
163	Activated Carbon Modified with Carbon Nanodots as Novel Electrode Material for Supercapacitors. Journal of Physical Chemistry C, 2016, 120, 13406-13413.	1.5	72
164	Carbon-Dot Initiated Synthesis of Polypyrrole and Polypyrrole@CuO Micro/Nanoparticles with Enhanced Antibacterial Activity. ACS Applied Polymer Materials, 2019, 1, 1181-1186.	2.0	72
165	Controlling the particle size of amorphous iron nanoparticles. Journal of Materials Research, 1995, 10, 2952-2957.	1.2	71
166	Mesoporous Structures from Supramolecular Assembly of in situ Generated ZnS Nanoparticles. Langmuir, 2003, 19, 5904-5911.	1.6	71
167	Loading Magnetic Nanoparticles into Sperm Cells Does Not Affect Their Functionality. Langmuir, 2006, 22, 9480-9482.	1.6	71
168	Sonochemical Synthesis of Nanophase Indium Sulfide. Chemistry of Materials, 2001, 13, 2195-2200.	3.2	70
169	Using Sonochemical Methods for the Preparation of Mesoporous Materials and for the Deposition of Catalysts into the Mesopores. Chemistry - A European Journal, 2001, 7, 4546-4552.	1.7	70
170	Fabrication and Magnetic Properties of Ni Nanospheres Encapsulated in a Fullerene-like Carbon. Journal of Physical Chemistry B, 2005, 109, 9495-9498.	1.2	70
171	Enantioselective Separation Using Chiral Mesoporous Spherical Silica Prepared by Templating of Chiral Block Copolymers. ACS Applied Materials & Interfaces, 2009, 1, 1834-1842.	4.0	70
172	Fluorescent metal-doped carbon dots for neuronal manipulations. Ultrasonics Sonochemistry, 2019, 52, 205-213.	3.8	70
173	Sonochemical Coating of Nanosized Nickel on Alumina Submicrospheres and the Interaction between the Nickel and Nickel Oxide with the Substrate. Chemistry of Materials, 1999, 11, 2350-2359.	3.2	69
174	Sonochemical process for the preparation of In_2S_3 -CuSe nanocrystals and flakes. Journal of Materials Chemistry, 2002, 12, 3723-3727.	6.7	69
175	Ultrasound Radiation as a "Throwing Stones" Technique for the Production of Antibacterial Nanocomposite Textiles. ACS Applied Materials & Interfaces, 2010, 2, 1999-2004.	4.0	69
176	Ultrasonic cavitation of molten gallium: Formation of micro- and nano-spheres. Ultrasonics Sonochemistry, 2014, 21, 1166-1173.	3.8	69
177	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. Nanomaterials, 2021, 11, 369.	1.9	69
178	Extravalence molecular excitations in inert matrices. Journal of Chemical Physics, 1973, 58, 1178-1194.	1.2	68
179	Facile one-step sonochemical synthesis of ultrafine and stable fluorescent C-dots. Ultrasonics Sonochemistry, 2016, 28, 367-375.	3.8	68
180	Preparation of amorphous Fe_2O_3 powder with different particle sizes. Journal of Materials Chemistry, 1997, 7, 2447-2451.	6.7	67

#	ARTICLE	IF	CITATIONS
181	Room Temperature Sonoelectrochemical Synthesis of Molybdenum Sulfide Fullerene-Like Nanoparticles. <i>Advanced Materials</i> , 1999, 11, 1010-1013.	11.1	67
182	A novel ultrasound-assisted approach to the synthesis of CdSe and CdS nanoparticles. <i>Journal of Solid State Chemistry</i> , 2003, 172, 102-110.	1.4	67
183	One-Step Synthesis and Characterization of Ultrastable and Amorphous Fe ₃ O ₄ Colloids Capped with Cysteine Molecules. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15429-15438.	1.5	67
184	The sonochemical coating of cotton withstands 65 washing cycles at hospital washing standards and retains its antibacterial properties. <i>Cellulose</i> , 2013, 20, 1215-1221.	2.4	67
185	Novel Lignin-Capped Silver Nanoparticles against Multidrug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22098-22109.	4.0	67
186	Microwave-assisted synthesis of nanosized MoSe ₂ . <i>Journal of Materials Chemistry</i> , 2003, 13, 2603.	6.7	66
187	Templating Mesoporous Silica with Chiral Block Copolymers and Its Application for Enantioselective Separation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11105-11110.	1.2	66
188	Green synthesis of MoS ₂ nanoflowers for efficient degradation of methylene blue and crystal violet dyes under natural sun light conditions. <i>New Journal of Chemistry</i> , 2018, 42, 14318-14324.	1.4	65
189	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance. <i>Langmuir</i> , 2022, 38, 3936-3950.	1.6	65
190	Ultrasound-Assisted Polyol Method for the Preparation of SBA-15-Supported Ruthenium Nanoparticles and the Study of Their Catalytic Activity on the Partial Oxidation of Methane. <i>Langmuir</i> , 2004, 20, 8352-8356.	1.6	64
191	Sonochemically Prepared high Dispersed Ru/TiO ₂ Mesoporous Catalyst for Partial Oxidation of Methane to Syngas. <i>Catalysis Letters</i> , 2005, 103, 9-14.	1.4	64
192	Modified PVA-Fe ₃ O ₄ Nanoparticles as Protein Carriers into Sperm Cells. <i>Small</i> , 2008, 4, 1453-1458.	5.2	64
193	Synthesis and Electrochemical Oxygen Reduction of Platinum Nanoparticles Supported on Mesoporous TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2009, 113, 18707-18712.	1.5	64
194	A sonochemical technology for coating of textiles with antibacterial nanoparticles and equipment for its implementation. <i>Materials Letters</i> , 2013, 96, 121-124.	1.3	64
195	Olympic Ring Formation from Newly Prepared Barium Hexaferrite Nanoparticle Suspension. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3358-3360.	1.2	63
196	Preparation and Characterization of Ag ₂ E (E = Se, Te) Using the Sonochemically Assisted Polyol Method. <i>Chemistry of Materials</i> , 2002, 14, 2094-2102.	3.2	63
197	Elongated Copper Nanoparticles Coated with a Zwitterionic Surfactant. <i>Journal of Physical Chemistry B</i> , 2000, 104, 893-897.	1.2	62
198	Preparation and characterization of nickel-polystyrene nanocomposite by ultrasound irradiation. <i>Journal of Applied Polymer Science</i> , 2002, 86, 160-165.	1.3	62

#	ARTICLE	IF	CITATIONS
199	Microwave-assisted synthesis of nanosized Bi ₂ Se ₃ . <i>New Journal of Chemistry</i> , 2003, 27, 1191.	1.4	62
200	Sonochemical Synthesis of Nanocrystalline Rare Earth Orthoferrites Using Fe(CO) ₅ Precursor. <i>Chemistry of Materials</i> , 2004, 16, 3623-3632.	3.2	62
201	Synthesis of ZnO and Zn Nanoparticles in Microwave Plasma and Their Deposition on Glass Slides. <i>Langmuir</i> , 2010, 26, 5976-5984.	1.6	62
202	Acoustic Green Synthesis of Graphene-Gallium Nanoparticles and PEDOT:PSS Hybrid Coating for Textile To Mitigate Electromagnetic Radiation Pollution. <i>ACS Applied Nano Materials</i> , 2022, 5, 1644-1655.	2.4	61
203	Sonochemical preparation and characterization of nanosized amorphous Co-Ni alloy powders. <i>Journal of Materials Chemistry</i> , 1998, 8, 769-773.	6.7	60
204	An Aqueous Reduction Method To Synthesize Spinel-LiMn ₂ O ₄ Nanoparticles as a Cathode Material for Rechargeable Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2003, 15, 4211-4216.	3.2	60
205	An Easy Sonochemical Route for the Encapsulation of Tetracycline In Bovine Serum Albumin Microspheres. <i>Journal of the American Chemical Society</i> , 2003, 125, 15712-15713.	6.6	60
206	EXAFS and XANES Investigations of CuFe ₂ O ₄ Nanoparticles and CuFe ₂ O ₄ -MO ₂ (M = Sn, Ce) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16724-16733.	1.5	60
207	Sonochemical deposition of silver nanoparticles on wool fibers. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1732-1737.	1.3	60
208	Sonochemical stabilization of ultrafine colloidal biocompatible magnetite nanoparticles using amino acid, l-arginine, for possible bio applications. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 730-737.	3.8	60
209	The Different Behavior of Rutile and Anatase Nanoparticles in Forming Oxy Radicals Upon Illumination with Visible Light: An EPR Study. <i>Photochemistry and Photobiology</i> , 2012, 88, 14-20.	1.3	60
210	Depositing silver nanoparticles on/in a glass slide by the sonochemical method. <i>Nanotechnology</i> , 2008, 19, 435604.	1.3	59
211	Decorating Parylene-Coated Glass with ZnO Nanoparticles for Antibacterial Applications: A Comparative Study of Sonochemical, Microwave, and Microwave-Plasma Coating Routes. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1052-1059.	4.0	59
212	Catheters coated with Zn-doped CuO nanoparticles delay the onset of catheter-associated urinary tract infections. <i>Nano Research</i> , 2017, 10, 520-533.	5.8	59
213	Platinum and ruthenium catalysts on mesoporous titanium and zirconium oxides for the catalytic wet air oxidation of model compounds. <i>Applied Catalysis B: Environmental</i> , 2005, 59, 121-130.	10.8	58
214	Chiral-mesoporous-poly pyrrole nanoparticles: Its chiral recognition abilities and use in enantioselective separation. <i>Journal of Materials Chemistry</i> , 2010, 20, 4085.	6.7	58
215	Biocidal properties of TiO ₂ powder modified with Ag nanoparticles. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5309.	2.9	58
216	Disorder-induced phase coexistence in bulk doped manganites and its suppression in nanometer-sized crystals: The case of La _{0.9} Ca _{0.1} MnO ₃ . <i>Physical Review B</i> , 2007, 76, .	1.1	57

#	ARTICLE	IF	CITATIONS
217	Tailor made magnetic nanolights: fabrication to cancer theranostics applications. <i>Nanoscale Advances</i> , 2021, 3, 6762-6796.	2.2	57
218	Preparation of Cu_2xTe and HgTe by Using Microwave Heating. <i>Journal of Solid State Chemistry</i> , 2000, 154, 530-534.	1.4	56
219	Synthesis of a carbon-coated NiO/MgO core/shell nanocomposite as a Pd electro-catalyst support for ethanol oxidation. <i>Materials Chemistry and Physics</i> , 2011, 128, 341-347.	2.0	56
220	A one-step sonochemical synthesis of stable ZnO -PVA nanocolloid as a potential biocidal agent. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2124-2132.	2.9	56
221	Emission spectra of solid rare-gas alloys. <i>Journal of Chemical Physics</i> , 1973, 59, 5471-5483.	1.2	55
222	A sonochemical method for the synthesis of polyaniline and Au -polyaniline composites using H_2O_2 for enhancing rate and yield. <i>Synthetic Metals</i> , 2005, 148, 301-306.	2.1	55
223	The application of ultrasound radiation to the synthesis of nanocrystalline metal oxide in a non-aqueous solvent. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 173-178.	3.8	55
224	Sonochemical Preparation and Characterization of Europium Oxide Doped In and Coated On ZrO_2 and Yttrium-Stabilized Zirconium (YSZ). <i>Journal of Physical Chemistry B</i> , 2000, 104, 7057-7065.	1.2	54
225	Synthesis of X-ray amorphous silver nanoparticles by the pulse sonoelectrochemical method. <i>Journal of Non-Crystalline Solids</i> , 2001, 283, 231-236.	1.5	54
226	Stabilization of Metastable Face-Centered Cubic Cobalt and the Tetragonal Phase of Zirconia by a Carbon Shell: Reaction under Autogenic Pressure at Elevated Temperature of $\text{CoZr}_2(\text{acac})_2(\text{O}i\text{Pr})_8$. <i>Chemistry of Materials</i> , 2004, 16, 1793-1798.	3.2	54
227	Formation of a Three-Dimensional Microstructure of Fe_3O_4 -Poly(vinyl alcohol) Composite by Evaporating the Hydrosol under a Magnetic Field. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8194-8203.	1.2	54
228	Biodegradability study and pH influence on growth and orientation of ZnO nanorods via aqueous solution process. <i>Applied Surface Science</i> , 2012, 258, 6765-6771.	3.1	54
229	Making the hospital a safer place by sonochemical coating of all its textiles with antibacterial nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2015, 25, 82-88.	3.8	53
230	Photopolymerized Thin Coating of Polypyrrole/Graphene Nanofiber/Iron Oxide onto Nonpolar Plastic for Flexible Electromagnetic Radiation Shielding, Strain Sensing, and Non-Contact Heating Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101255.	1.9	53
231	Ultrasound Driven Deposition and Reactivity of Nanophasic Amorphous Iron Clusters with Surface Silanols of Submicrospherical Silica. <i>Chemistry of Materials</i> , 1997, 9, 2996-3004.	3.2	52
232	Time-dependence of luminescence of nanoparticles of Eu_2O_3 and Tb_2O_3 deposited on and doped in alumina. <i>Applied Physics Letters</i> , 2000, 77, 945.	1.5	52
233	A New Fullerene-like Inorganic Compound Fabricated by the Sonolysis of an Aqueous Solution of TiCl_3 . <i>Journal of the American Chemical Society</i> , 2000, 122, 4331-4334.	6.6	52
234	Synthesis of tin nanorods via a sonochemical method combined with a polyol process. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 243-247.	3.8	52

#	ARTICLE	IF	CITATIONS
235	Characterization and activity of sonochemically-prepared BSA microspheres containing Taxol – An anticancer drug. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 661-666.	3.8	52
236	Facile Synthesis of Photoluminescent ZnS and ZnSe Nanopowders. <i>Langmuir</i> , 2008, 24, 10462-10466.	1.6	52
237	Tannic acid NPs – Synthesis and immobilization onto a solid surface in a one-step process and their antibacterial and anti-inflammatory properties. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1916-1920.	3.8	52
238	Sonochemical synthesis of tungsten sulfide nanorods Electronic supplementary information (ESI) available: TGA curve for the as-prepared product; AFM image of WS ₂ packs of nanorods. See http://www.rsc.org/suppdata/jm/b1/b110867k/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 1450-1452.	6.7	51
239	Chiral separation abilities: Aspartic acid block copolymer-imprinted mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 82-89.	2.2	51
240	SiO ₂ Beads Decorated with SrO Nanoparticles for Biodiesel Production from Waste Cooking Oil Using Microwave Irradiation. <i>Energy & Fuels</i> , 2016, 30, 3151-3160.	2.5	51
241	Refractive-Index Tuning of Highly Fluorescent Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28930-28938.	4.0	51
242	Preparation and characterization of iron-encapsulating carbon nanotubes and nanoparticles. <i>Journal of Materials Chemistry</i> , 2000, 10, 2502-2506.	6.7	50
243	A microwave-assisted polyol method for the deposition of silver nanoparticles on silica spheres. <i>Nanotechnology</i> , 2007, 18, 255601.	1.3	50
244	Micro- and nano-spheres of low melting point metals and alloys, formed by ultrasonic cavitation. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 432-444.	3.8	50
245	Antibacterial properties of polypyrrole-treated fabrics by ultrasound deposition. <i>Materials Science and Engineering C</i> , 2019, 102, 164-170.	3.8	50
246	Preparation and characterization of Fe ₃ O ₄ –TiO ₂ via sonochemical synthesis. <i>Materials Research Bulletin</i> , 2002, 37, 1721-1735.	2.7	49
247	Preparation of porous cobalt and nickel oxides from corresponding alkoxides using a sonochemical technique and its application as a catalyst in the oxidation of hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 1-9.	3.8	49
248	The Effect of a Magnetic Field on a RAPET (Reaction under Autogenic Pressure at Elevated Temperature) of MoO(OMe) ₄ : A Fabrication of MoO ₂ Nanoparticles Coated with Carbon or Separated MoO ₂ and Carbon Particles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6322-6327.	1.2	49
249	Electrochemical properties of bamboo-shaped multiwalled carbon nanotubes generated by solid state pyrolysis. <i>Electrochemistry Communications</i> , 2006, 8, 1099-1105.	2.3	49
250	Antibacterial and antibiofilm properties of yttrium fluoride nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 5611.	3.3	49
251	In vivo and in vitro study of a novel nanohydroxyapatite sonocoated scaffolds for enhanced bone regeneration. <i>Materials Science and Engineering C</i> , 2019, 99, 669-684.	3.8	49
252	Rapid synthesis of nanoparticles of hexagonal type In ₂ O ₃ and spherical type Ti ₂ O ₃ by microwave irradiation. <i>New Journal of Chemistry</i> , 2004, 28, 1060.	1.4	48

#	ARTICLE	IF	CITATIONS
253	More on sonolytic and sonocatalytic decomposition of Diclofenac using zero-valent iron. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 580-586.	3.8	48
254	The sonochemical synthesis of Ga@C-dots particles. <i>RSC Advances</i> , 2015, 5, 25533-25540.	1.7	48
255	From Discrete Particles to Spherical Aggregates: A Simple Approach to the Self-Assembly of Au Colloids. <i>Chemistry - A European Journal</i> , 2005, 11, 1473-1478.	1.7	47
256	The microwave-assisted polyol synthesis of nanosized hard magnetic material, FePt. <i>Journal of Materials Chemistry</i> , 2005, 15, 698.	6.7	47
257	Sonoelectrochemical Synthesis of Metallic Aluminum Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2050-2053.	1.0	47
258	Facile synthesis of gallium oxide hydroxide by ultrasonic irradiation of molten gallium in water. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 340-344.	3.8	47
259	Sonochemical synthesis of CH ₃ NH ₃ PbI ₃ perovskite ultrafine nanocrystal sensitizers for solar energy applications. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 54-59.	3.8	47
260	Novel polymerization of aniline and pyrrole by carbon dots. <i>New Journal of Chemistry</i> , 2018, 42, 535-540.	1.4	47
261	High quantum yield boron-doped carbon dots: a ratiometric fluorescent probe for highly selective and sensitive detection of Mg ²⁺ ions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1632-1640.	2.7	47
262	Ruthenium Phosphide Synthesis and Electroactivity toward Oxygen Reduction in Acid Solutions. <i>ACS Catalysis</i> , 2015, 5, 4260-4267.	5.5	46
263	Synthesis of WO ₃ Nanorods by Reacting WO(OMe) ₄ under Autogenic Pressure at Elevated Temperature Followed by Annealing. <i>Inorganic Chemistry</i> , 2005, 44, 9938-9945.	1.9	45
264	Pulsed sonoelectrochemical synthesis of polyaniline nanoparticles and their capacitance properties. <i>Synthetic Metals</i> , 2008, 158, 848-853.	2.1	45
265	A hydrothermal reaction of an aqueous solution of BSA yields highly fluorescent N doped C-dots used for imaging of live mammalian cells. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2913-2920.	2.9	45
266	Nanotechnology solutions to restore antibiotic activity. <i>Journal of Materials Chemistry B</i> , 2016, 4, 824-833.	2.9	45
267	Sonochemical Synthesis and Characterization of Iron Oxide Coated on Submicrospherical Alumina: A Direct Observation of Interaction between Iron Oxide and Alumina. <i>Journal of Physical Chemistry B</i> , 1999, 103, 947-956.	1.2	44
268	Coating silver nanoparticles on poly(methyl methacrylate) chips and spheres via ultrasound irradiation. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2868-2876.	1.3	44
269	Synthesis of WO ₃ nanoparticles using a biopolymer as a template for electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2008, 19, 025702.	1.3	44
270	Sonochemical Synthesis of Layered and Hexagonal Yttrium-Zirconium Oxides. <i>Chemistry of Materials</i> , 2001, 13, 1248-1251.	3.2	43

#	ARTICLE	IF	CITATIONS
271	Sonochemical Deposition of Au Nanoparticles on Titania and the Significant Decrease in the Melting Point of Gold. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 975-979.	0.9	43
272	Synthesis of One-Dimensional and Porous TiO ₂ Nanostructures by Controlled Hydrolysis of Titanium Alkoxide via Coupling with an Esterification Reaction. <i>Chemistry of Materials</i> , 2005, 17, 6814-6818.	3.2	43
273	One-Step Preparation of Multifunctional Chitosan Microspheres by a Simple Sonochemical Method. <i>Chemistry - A European Journal</i> , 2010, 16, 562-567.	1.7	43
274	Dry Autoclaving for the Nanofabrication of Sulfides, Selenides, Borides, Phosphides, Nitrides, Carbides, and Oxides. <i>Advanced Materials</i> , 2011, 23, 1179-1190.	11.1	43
275	Enzymatic pre-treatment as a means of enhancing the antibacterial activity and stability of ZnO nanoparticles sonochemically coated on cotton fabrics. <i>Journal of Materials Chemistry</i> , 2012, 22, 10736.	6.7	43
276	Levulinic acid production from Cicer arietinum, cotton, Pinus radiata and sugarcane bagasse. <i>RSC Advances</i> , 2014, 4, 44706-44711.	1.7	43
277	Amorphous iron oxide prepared by microwave heating. <i>Journal of Materials Research</i> , 2000, 15, 2176-2181.	1.2	42
278	Preparation of Cd _{1-x} Zn _x Se Using Microwave-Assisted Polyol Synthesis. <i>Inorganic Chemistry</i> , 2001, 40, 4814-4815.	1.9	42
279	Microwave-assisted synthesis of tin sulfide nanoflakes and their electrochemical performance as Li-inserting materials. <i>Journal of Solid State Electrochemistry</i> , 2006, 11, 186-194.	1.2	42
280	Manipulating the Self-Assembling Process to Obtain Control over the Morphologies of Copper Oxide in Hydrothermal Synthesis and Creating Pores in the Oxide Architecture. <i>Langmuir</i> , 2007, 23, 5971-5977.	1.6	42
281	Solvothermal synthesis of nanocrystalline zinc oxide doped with Mn ²⁺ , Ni ²⁺ , Co ²⁺ and Cr ³⁺ ions. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1991-2002.	0.8	42
282	Converting Stober Silica and Mediterranean Sand to High Surface Area Silicon by a Reaction under Autogenic Pressure at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10521-10526.	1.5	42
283	Solar-Heated Sustainable Biodiesel Production from Waste Cooking Oil Using a Sonochemically Deposited SrO Catalyst on Microporous Activated Carbon. <i>Energy & Fuels</i> , 2017, 31, 6228-6239.	2.5	42
284	The preparation of a polystyrene-iron composite by using ultrasound radiation. <i>Polymer International</i> , 2000, 49, 445-448.	1.6	41
285	Synthesis of carbon nanotubes from in situ generated cobalt nanoparticles and carbon monoxide. <i>Chemical Physics Letters</i> , 2001, 344, 256-262.	1.2	41
286	Nanometer size effect on magnetic order in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Predominant influence of doped electron localization. <i>Physical Review B</i> , 2008, 78, .	1.1	41
287	Forming nanoparticles of water-soluble ionic molecules and embedding them into polymer and glass substrates. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 267-276.	1.5	41
288	Can cellulose be a sustainable feedstock for bioethanol production?. <i>Renewable Energy</i> , 2014, 71, 77-80.	4.3	41

#	ARTICLE	IF	CITATIONS
289	Preparation and characterization of Ni/NiO composite using microwave irradiation and sonication. <i>Scripta Materialia</i> , 1999, 11, 415-420.	0.5	40
290	Nanocrystalline γ -Alumina Synthesized by Sonohydrolysis of Alkoxide Precursor in the Presence of Organic Acids: Structure and Morphological Properties. <i>Journal of the American Ceramic Society</i> , 2000, 83, 89-94.	1.9	40
291	TEM, EELS and EFTEM characterization of nickel nanoparticles encapsulated in carbon. <i>Journal of Materials Chemistry</i> , 2000, 10, 715-721.	6.7	40
292	Oriented Growth of ZnO Crystals on Self-Assembled Monolayers of Functionalized Alkyl Silanes. <i>Crystal Growth and Design</i> , 2004, 4, 169-175.	1.4	40
293	Thermal decomposition of tetraethylorthosilicate (TEOS) produces silicon coated carbon spheres. <i>Journal of Materials Chemistry</i> , 2004, 14, 966.	6.7	40
294	Microwave-Assisted Coating of PMMA Beads by Silver Nanoparticles. <i>Langmuir</i> , 2007, 23, 9891-9897.	1.6	40
295	Zirconium nanoparticles prepared by the reduction of zirconium oxide using the RAPET method. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 198-203.	1.5	40
296	Optimization of bio-diesel production from oils, cooking oils, microalgae, and castor and jatropha seeds: probing various heating sources and catalysts. <i>Energy and Environmental Science</i> , 2012, 5, 7460.	15.6	40
297	Insights on the Mechanism of Formation of Protein Microspheres in a Biphasic System. <i>Molecular Pharmaceutics</i> , 2012, 9, 3079-3088.	2.3	40
298	Facile synthesis of self-assembled spherical and mesoporous dandelion capsules of ZnO: efficient carrier for DNA and anti-cancer drugs. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3956-3964.	2.9	40
299	Nonaqueous synthesis of SrO nanopowder and SrO/SiO ₂ composite and their application for biodiesel production via microwave irradiation. <i>Renewable Energy</i> , 2017, 101, 493-499.	4.3	40
300	Are sonochemically prepared α -amylase protein microspheres biologically active?. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 1-5.	3.8	39
301	The sonochemical synthesis and characterization of Cu ₂ NiWO ₄ nanoparticles/nanorods and their application in electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2009, 20, 105602.	1.3	39
302	Production of 1,3-propanediol from glycerol via fermentation by <i>Saccharomyces cerevisiae</i> . <i>Green Chemistry</i> , 2016, 18, 4657-4666.	4.6	39
303	Nitrogen-doped carbon dots prepared from bovine serum albumin to enhance algal astaxanthin production. <i>Algal Research</i> , 2017, 23, 161-165.	2.4	39
304	Fluorescent Nanoparticles with Tissue-Dependent Affinity for Live Zebrafish Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18557-18565.	4.0	39
305	Kinetic, isotherm and mechanism studies of organic dye adsorption on poly(4,4'-oxybisbenzamine) and copolymer of poly(4,4'-oxybisbenzamine-pyrrole) macro-nanoparticles synthesized by multifunctional carbon dots. <i>New Journal of Chemistry</i> , 2019, 43, 1926-1935.	1.4	39
306	Rapid synthesis of high quality MCM-41 silica with ultrasound radiation. <i>Chemical Communications</i> , 2000, , 2119-2120.	2.2	38

#	ARTICLE	IF	CITATIONS
307	Insights into the sonochemical decomposition of Fe(CO) ₅ : theoretical and experimental understanding of the role of molar concentration and power density on the reaction yield. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 373-378.	3.8	38
308	The preparation of avidin microspheres using the sonochemical method and the interaction of the microspheres with biotin. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 405-409.	3.8	38
309	Micro to Nano Conversion: A One-Step, Environmentally Friendly, Solid State, Bulk Fabrication of WS ₂ and MoS ₂ Nanoplates. <i>Crystal Growth and Design</i> , 2008, 8, 1126-1132.	1.4	38
310	Sonochemically prepared BSA microspheres containing Gemcitabine, and their potential application in renal cancer therapeutics. <i>Acta Biomaterialia</i> , 2009, 5, 3031-3037.	4.1	38
311	Ultrasonic cavitation of molten gallium in water: entrapment of organic molecules in gallium microspheres. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1309-1317.	5.2	38
312	Antimicrobial Activities of Zn-Doped CuO Microparticles Decorated on Polydopamine against Sensitive and Antibiotic-Resistant Bacteria. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5878-5888.	2.0	38
313	Antimicrobial Properties of Polyaniline and Polypyrrole Decorated with Zinc-Doped Copper Oxide Microparticles. <i>Polymers</i> , 2020, 12, 1286.	2.0	38
314	Preparation and Characterization of Monodispersed YSZ Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4647-4652.	1.2	37
315	Sonochemical immobilization of silver nanoparticles on porous polypropylene. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1719-1729.	2.5	37
316	A One-step, Template-free Synthesis, Characterization, Optical and Magnetic Properties of Zn _{1-x} Mn _x Te Nanosheets. <i>Chemistry of Materials</i> , 2009, 21, 326-335.	3.2	37
317	Effective multi-strain inhibition of influenza virus by anionic gold nanoparticles. <i>MedChemComm</i> , 2011, 2, 421.	3.5	37
318	Enhanced inactivation of bacteria by metal-oxide nanoparticles combined with visible light irradiation. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 236-240.	1.1	37
319	Coating a stainless steel plate with silver nanoparticles by the sonochemical method. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 356-362.	3.8	37
320	Sonochemically-fabricated Ga@C-dots@Ga nanoparticle-aided neural growth. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1371-1379.	2.9	37
321	Sonochemistry under an Applied Magnetic Field: Determining the Shape of a Magnetic Particle. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10165-10168.	1.2	36
322	Synthesis and characterization of a micro scale zinc oxide-PVA composite by ultrasound irradiation and the effect of composite on the crystal growth of zinc oxide. <i>Journal of Crystal Growth</i> , 2003, 250, 409-417.	0.7	36
323	Preparation of stable porous nickel and cobalt oxides using simple inorganic precursor, instead of alloxides, by a sonochemical technique. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 205-212.	3.8	36
324	Rapid Synthesis in Ionic Liquids of Room-Temperature-Conducting Solid Microsilica Spheres. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6560-6563.	7.2	36

#	ARTICLE	IF	CITATIONS
325	Sonochemical synthesis, structural, magnetic and grain size dependent electrical properties of NdVO ₄ nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 599-605.	3.8	36
326	Zinc-Doped Copper Oxide Nanocomposites Inhibit the Growth of Human Cancer Cells through Reactive Oxygen Species-Mediated NF- κ B Activations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31806-31812.	4.0	36
327	Two are Better than One: Combining ZnO and MgF ₂ Nanoparticles Reduces <i>Streptococcus pneumoniae</i> and <i>Staphylococcus aureus</i> Biofilm Formation on Cochlear Implants. <i>Advanced Functional Materials</i> , 2016, 26, 2473-2481.	7.8	36
328	Antibacterial Activity against Methicillin-Resistant <i>Staphylococcus aureus</i> of Colloidal Polydopamine Prepared by Carbon Dot Stimulated Polymerization of Dopamine. <i>Nanomaterials</i> , 2019, 9, 1731.	1.9	36
329	Antibacterial activities of microwave-assisted synthesized polypyrrole/chitosan and poly(pyrrole-N-(1-naphthyl) ethylenediamine) stimulated by C-dots. <i>Carbohydrate Polymers</i> , 2020, 243, 116474.	5.1	36
330	Surfactant-Assisted Self-Organization of Cobalt Nanoparticles in a Magnetic Fluid. <i>Advanced Materials</i> , 1998, 10, 590-593.	11.1	35
331	Sonochemistry as a tool for preparation of porous metal oxides. <i>Pure and Applied Chemistry</i> , 2002, 74, 1509-1517.	0.9	35
332	Microwave-assisted solid-state synthesis and characterization of intermetallic compounds of Li ₃ Bi and Li ₃ Sb. <i>Journal of Materials Chemistry</i> , 2003, 13, 2607.	6.7	35
333	Sonochemical Synthesis under a Magnetic Field: Fabrication of Nickel and Cobalt Particles and Variation of Their Physical Properties. <i>Chemistry - A European Journal</i> , 2008, 14, 10115-10122.	1.7	35
334	Encapsulation of RNA Molecules in BSA Microspheres and Internalization into <i>Trypanosoma Brucei</i> Parasites and Human U2OS Cancer Cells. <i>Advanced Functional Materials</i> , 2011, 21, 3659-3666.	7.8	35
335	<i>In-Situ</i> Transesterification of <i>Chlorella vulgaris</i> Using Carbon-Dot Functionalized Strontium Oxide as a Heterogeneous Catalyst under Microwave Irradiation. <i>Energy & Fuels</i> , 2016, 30, 10602-10610.	2.5	35
336	Carbon Dot Initiated Synthesis of Poly(4,4'-diaminodiphenylmethane) and Its Methylene Blue Adsorption. <i>ACS Omega</i> , 2018, 3, 7061-7068.	1.6	35
337	Microwave-assisted synthesis of submicrometer GaO(OH) and Ga ₂ O ₃ rods. <i>Journal of Nanoparticle Research</i> , 2004, 6, 509-518.	0.8	34
338	Sonochemically Prepared Pt/CeO ₂ and Its Application as a Catalyst in Ethyl Acetate Combustion. <i>Langmuir</i> , 2006, 22, 7072-7077.	1.6	34
339	Stabilizing RNA by the Sonochemical Formation of RNA Nanospheres. <i>Small</i> , 2011, 7, 1068-1074.	5.2	34
340	Fragrance release profile from sonochemically prepared protein microsphere containers. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 858-863.	3.8	34
341	Sonochemical Formation of Ga-Pt Intermetallic Nanoparticles Embedded in Graphene and its Potential Use as an Electrocatalyst. <i>Electrochimica Acta</i> , 2016, 190, 659-667.	2.6	34
342	Exploring the Effect of Iron Metal-Organic Framework Particles in Polylactic Acid Membranes for the Azeotropic Separation of Organic/Organic Mixtures by Pervaporation. <i>Membranes</i> , 2021, 11, 65.	1.4	34

#	ARTICLE	IF	CITATIONS
343	Tailoring the Properties of Fe ²⁺ /Fe ₃ C Nanocrystalline Particles Prepared by Sonochemistry. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7620-7626.	1.2	33
344	DSC measurements of the thermal properties of gallium particles in the micron and sub-micron sizes, obtained by sonication of molten gallium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1587-1592.	2.0	33
345	Selective conversion of starch to glucose using carbon based solid acid catalyst. <i>Renewable Energy</i> , 2015, 78, 141-145.	4.3	33
346	Airborne Nanoparticle Release and Toxicological Risk from Metal-Oxide-Coated Textiles: Toward a Multiscale Safe-by-Design Approach. <i>Environmental Science & Technology</i> , 2017, 51, 9305-9317.	4.6	33
347	Sonochemical preparation of polyaniline@TiO ₂ and polyaniline@SiO ₂ for the removal of anionic and cationic dyes. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104864.	3.8	33
348	A comparison between hot-hydrolysis and sonolysis of various Mn(II) salts. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 17-23.	3.8	32
349	Sonochemical decoration of multi-walled carbon nanotubes with nanocrystalline tin. <i>New Journal of Chemistry</i> , 2004, 28, 1056.	1.4	32
350	Sonochemical Insertion of Silver Nanoparticles into Two-Dimensional Mesoporous Alumina. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11161-11167.	1.5	32
351	Deposition of Gold Particles on Mesoporous Catalyst Supports by Sonochemical Method, and their Catalytic Performance for CO Oxidation. <i>Catalysis Letters</i> , 2008, 120, 19-24.	1.4	32
352	Chloroethene dehalogenation with ultrasonically produced air-stable nano iron. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 617-621.	3.8	32
353	Luminescent and Ferromagnetic CdS:Mn ²⁺ /C Core-Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22002-22011.	1.5	32
354	Sonochemical Synthesis of DNA Nanospheres. <i>ChemBioChem</i> , 2011, 12, 1678-1681.	1.3	32
355	Proteinaceous microspheres as a delivery system for carvacrol and thymol in antibacterial applications. <i>Ultrasonics Sonochemistry</i> , 2018, 41, 288-296.	3.8	32
356	Preparation and characterization of amorphous nanometre sized Fe ₃ O ₄ powder. <i>Journal of Materials Chemistry</i> , 1997, 7, 1007-1009.	6.7	31
357	Catalytic Aerobic Epoxidation of Olefins by Nanostructured Amorphous CoO/MCM-41. <i>Catalysis Letters</i> , 2003, 86, 197-200.	1.4	31
358	Synthesis of Copper Dendrite Nanostructures by a Sonoelectrochemical Method. <i>Chemistry - A European Journal</i> , 2008, 14, 4696-4703.	1.7	31
359	One-Step Solvent-Free Synthesis and Characterization of Zn _{1-x} Mn _x Se@C Nanorods and Nanowires. <i>Advanced Functional Materials</i> , 2008, 18, 1641-1653.	7.8	31
360	Core-Shell Vanadium Oxide-Carbon Nanoparticles: Synthesis, Characterization, and Luminescence Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10500-10504.	1.5	31

#	ARTICLE	IF	CITATIONS
361	Preparation of enzyme nanoparticles and studying the catalytic activity of the immobilized nanoparticles on polyethylene films. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 425-431.	3.8	31
362	Photocatalytic Degradation of Organic Dyes and Antimicrobial Activities by Polyanilineâ€“Nitrogen-Doped Carbon Dot Nanocomposite. <i>Nanomaterials</i> , 2021, 11, 1128.	1.9	31
363	Far vacuum ultraviolet absorption of solid hydrogen. <i>Journal of Chemical Physics</i> , 1973, 59, 2752-2753.	1.2	30
364	Sonochemical Synthesis and Characterization of Nanocrystalline Paramelaconite in Polyaniline Matrix. <i>Chemistry of Materials</i> , 2000, 12, 3892-3895.	3.2	30
365	Rapid Synthesis of Mesoporous Yttriumâˆ“Zirconium Oxides with Ultrasound Irradiation. <i>Langmuir</i> , 2001, 17, 4131-4133.	1.6	30
366	Crystallization of Highly Oriented ZnO Microrods on Carboxylic Acid-Terminated SAMs. <i>Chemistry of Materials</i> , 2005, 17, 5048-5056.	3.2	30
367	Assembly of Au colloids into linear and spherical aggregates and effect of ultrasound irradiation on structure. <i>Journal of Materials Chemistry</i> , 2006, 16, 489-495.	6.7	30
368	Sonoelectrochemistry of Cu ²⁺ in the Presence of Cetyltrimethylammonium Bromide:Â Obtaining CuBr Instead of Copper. <i>Chemistry of Materials</i> , 2006, 18, 1184-1189.	3.2	30
369	In situ sonochemical synthesis of luminescent Sn@C-dots and a hybrid Sn@C-dots@Sn anode for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 66256-66265.	1.7	30
370	Development of Ga Salt of Molybdophosphoric Acid for Biomass Conversion to Levulinic Acid. <i>Energy & Fuels</i> , 2016, 30, 10583-10591.	2.5	30
371	Selective production of furfural from the dehydration of xylose using Zn doped CuO catalyst. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 55-62.	3.8	30
372	The preparation of metalâ€“polymer composite materials using ultrasound radiation: Part II. Differences in physical properties of cobaltâ€“polymer and ironâ€“polymer composites. <i>Journal of Materials Research</i> , 1999, 14, 3913-3920.	1.2	29
373	Reaction Pathways at the Ironâ€“microspherical Silica Interface: Mechanistic Aspects of the Formation of Target Iron Oxide Phases. <i>Journal of Materials Research</i> , 2000, 15, 944-950.	1.2	29
374	Synthesis of carbon nanoflasks. <i>Journal of Materials Chemistry</i> , 2000, 10, 1271-1272.	6.7	29
375	Synthesis of Nanocrystalline Zirconium Titanate and its Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2484-2489.	1.5	29
376	Synthesis and characterization of Nb ₂ O ₅ @C core-shell nanorods and Nb ₂ O ₅ nanorods by reacting Nb(OEt) ₅ via RAPET (reaction under autogenic pressure at elevated temperatures) technique. <i>Nanoscale Research Letters</i> , 2007, 2, 17-23.	3.1	29
377	Supported Ru catalysts prepared by two sonication-assisted methods for preferential oxidation of CO in H ₂ . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15690.	1.3	29
378	Sonochemical Coating of Cotton and Polyester Fabrics with â€œAntibacterialâ€•BSA and Casein Spheres. <i>Chemistry - A European Journal</i> , 2012, 18, 365-369.	1.7	29

#	ARTICLE	IF	CITATIONS
379	Marine integrated culture of carbohydrate rich <i>Ulva rigida</i> for enhanced production of bioethanol. <i>RSC Advances</i> , 2015, 5, 59251-59256.	1.7	29
380	Sonochemical co-deposition of antibacterial nanoparticles and dyes on textiles. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1-8.	1.5	29
381	Ga@C-dots as an antibacterial agent for the eradication of <i>Pseudomonas aeruginosa</i> . <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 725-730.	3.3	29
382	One-Pot Hydrothermal Synthesis of Elements (B, N, P)-Doped Fluorescent Carbon Dots for Cell Labelling, Differentiation and Outgrowth of Neuronal Cells. <i>ChemistrySelect</i> , 2019, 4, 4222-4232.	0.7	29
383	In vitro skin toxicity of CuO and ZnO nanoparticles: Application in the safety assessment of antimicrobial coated textiles. <i>NanoImpact</i> , 2021, 21, 100282.	2.4	29
384	Sonochemical synthesis of lead hydroxy bromide needles. <i>Journal of Materials Chemistry</i> , 2000, 10, 2143-2146.	6.7	28
385	The preparation of magnetic proteinaceous microspheres using the sonochemical method. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1527, 123-129.	1.1	28
386	Preparation, Texture, and Magnetic Properties of Carbon Nanotubes/Nanoparticles Doped with Cobalt. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4079-4084.	1.2	28
387	Applied Magnetic Field Rejects the Coating of Ferromagnetic Carbon from the Surface of Ferromagnetic Cobalt: RAPET of $\text{CoZr}_2(\text{acac})_2(\text{O}i\text{Pr})_8$. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6121-6125.	1.2	28
388	Direct Transesterification of Castor and Jatropha Seeds for FAME Production by Microwave and Ultrasound Radiation Using a SrO Catalyst. <i>Bioenergy Research</i> , 2012, 5, 958-968.	2.2	28
389	Toxicity Evaluation of a New Zn-Doped CuO Nanocomposite With Highly Effective Antibacterial Properties. <i>Toxicological Sciences</i> , 2015, 146, 16-30.	1.4	28
390	Sonication-Assisted Synthesis of Bimetallic Hg/Pd Alloy Nanoparticles for Catalytic Reduction of Nitrophenol and its Derivatives. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104804.	3.8	28
391	Small molecule-decorated gold nanoparticles for preparing antibiofilm fabrics. <i>Nanoscale Advances</i> , 2020, 2, 2293-2302.	2.2	28
392	Atomic force microscopy investigation of the surface topography and adhesion of nickel nanoparticles to submicrospherical silica. <i>Chemical Physics Letters</i> , 1998, 287, 461-467.	1.2	27
393	Commercial edible oils as new solvents for ultrasonic synthesis of nanoparticles: the preparation of air stable nanocrystalline iron particles. <i>Journal of Materials Chemistry</i> , 2004, 14, 2975.	6.7	27
394	Growing ZnO Crystals on Magnetite Nanoparticles. <i>Chemistry - A European Journal</i> , 2004, 10, 1845-1850.	1.7	27
395	Gold-Induced Crystallization of SiO_2 and TiO_2 Powders. <i>Crystal Growth and Design</i> , 2006, 6, 293-296.	1.4	27
396	WS_2 Breeds with Carbon to Create a Wormlike Nanostructure and Assembly: Reaction of $\text{W}(\text{CO})_6$ with S under Autogenic Pressure at Elevated Temperature under Inert Atmosphere. <i>Journal of Physical Chemistry C</i> , 2007, 111, 134-140.	1.5	27

#	ARTICLE	IF	CITATIONS
397	Encapsulating ZnS and ZnSe Nanocrystals in the Carbon Shell: A RAPET Approach. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13309-13314.	1.5	27
398	One-Pot Synthesis and Characterization of Mn ²⁺ -Doped Wurtzite CdSe Nanocrystals Encapsulated with Carbon. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7624-7630.	1.5	27
399	The Development and Characterization of Starch Microspheres Prepared by a Sonochemical Method for the Potential Drug Delivery of Insulin. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 924-931.	1.1	27
400	Sonochemical synthesis of HSiW/graphene catalysts for enhanced biomass hydrolysis. <i>Green Chemistry</i> , 2015, 17, 2418-2425.	4.6	27
401	Detection of human neutrophil elastase (HNE) on wound dressings as marker of inflammation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1443-1454.	1.7	27
402	Ultrasound driven aggregation and surface silanol modification in amorphous silica microspheres. <i>Journal of Materials Research</i> , 1997, 12, 3271-3277.	1.2	26
403	The preparation of metal-polymer composite materials using ultrasound radiation. <i>Journal of Materials Research</i> , 1998, 13, 211-216.	1.2	26
404	A two-step process for the synthesis of MoTe ₂ nanotubes: combining a sonochemical technique with heat treatment. <i>Journal of Materials Chemistry</i> , 2003, 13, 2985.	6.7	26
405	Enhanced pharmacological activity of Vitamin B12 and Penicillin as nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 3593.	3.3	26
406	Ultrasound coating of polydimethylsiloxanes with antimicrobial enzymes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7014-7019.	2.9	26
407	Evaluation of the Potential of <i>Chlorella vulgaris</i> for Bioethanol Production. <i>Energy & Fuels</i> , 2016, 30, 3161-3166.	2.5	26
408	Optimization of sintering on the structural, electrical and dielectric properties of SnO ₂ coated CuFe ₂ O ₄ nanoparticles. <i>Materials Chemistry and Physics</i> , 2006, 99, 109-116.	2.0	25
409	Combining MoS ₂ or MoSe ₂ nanoflakes with carbon by reacting Mo(CO) ₆ with S or Se under their autogenic pressure at elevated temperature. <i>Journal of Materials Science</i> , 2008, 43, 1966-1973.	1.7	25
410	Visible Light-Induced Antibacterial Activity of Metaloxide Nanoparticles. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 526-530.	2.1	25
411	Silver and gold doped hydroxyapatite nanocomposites for enhanced bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 055002.	1.7	25
412	Highly Luminescent ZnxCd _{1-x} Se/C Core/Shell Nanocrystals: Large Scale Synthesis, Structural and Cathodoluminescence Studies. <i>ACS Nano</i> , 2009, 3, 1864-1876.	7.3	24
413	Formation of particles of bismuth-based binary alloys and intermetallic compounds by ultrasonic cavitation. <i>New Journal of Chemistry</i> , 2015, 39, 5374-5381.	1.4	24
414	Antibiotic nanoparticles embedded into the Parylene C layer as a new method to prevent medical device-associated infections. <i>Journal of Materials Chemistry B</i> , 2015, 3, 59-64.	2.9	24

#	ARTICLE	IF	CITATIONS
415	Escherichia coli and Pseudomonas aeruginosa eradication by nano-penicillin G. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2061-2069.	1.7	24
416	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. Biotechnology Advances, 2021, 53, 107843.	6.0	24
417	Antimicrobial Activities of Conducting Polymers and Their Composites. Macromol, 2022, 2, 78-99.	2.4	24
418	The "Melting Point" of Alkanethiol-Coated Amorphous Fe ₂ O ₃ Nanoparticles. Advanced Materials, 1998, 10, 532-535.	11.1	23
419	Sonochemical synthesis of crystalline nanoporous zinc oxide spheres and their application in dye-sensitized solar cells. Israel Journal of Chemistry, 2001, 41, 51-54.	1.0	23
420	One-Step Synthesis and Characterization of SiC, Mo ₂ C, and WC Nanostructures. European Journal of Inorganic Chemistry, 2009, 2009, 709-715.	1.0	23
421	Mild Sonication Accelerates Ethanol Production by Yeast Fermentation. Energy & Fuels, 2012, 26, 2352-2356.	2.5	23
422	Sonochemical synthesis of LiNi _{0.5} Mn _{1.5} O ₄ and its electrochemical performance as a cathode material for 5 V Li-ion batteries. Ultrasonics Sonochemistry, 2015, 26, 332-339.	3.8	23
423	Nickel-Rich Phosphide (Ni ₁₂ P ₅) Nanosheets Coupled with Oxidized Multiwalled Carbon Nanotubes for Oxygen Evolution. ACS Applied Nano Materials, 2020, 3, 10914-10921.	2.4	23
424	Preparation of the Cd _{1-x} Zn _x Se alloys in the nanophase form using microwave irradiation. Journal of Materials Chemistry, 2002, 12, 339-344.	6.7	22
425	A fast synthesis for Zintl phase compounds of Na ₃ SbTe ₃ , NaSbTe ₂ and K ₃ SbTe ₃ by microwave irradiation. Journal of Solid State Chemistry, 2004, 177, 361-365.	1.4	22
426	Sonochemical Reaction of [Fe(CO) ₅] with 1-Methylimidazole in An Ionic Liquid: Formation of [(1-Methylimidazole) ₆ FeI](PF ₆) ₂ . European Journal of Inorganic Chemistry, 2005, 2005, 522-528.	1.0	22
427	Facile Synthesis of WSe ₂ Nanoparticles and Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 5356-5360.	1.5	22
428	Synthesis of mesoporous SiO ₂ -ZnO nanocapsules: encapsulation of small biomolecules for drugs and "SiO ₂ -plex" for gene delivery. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	22
429	Selective chemical reduction of carbon dioxide to formate using microwave irradiation. Journal of CO ₂ Utilization, 2014, 7, 19-22.	3.3	22
430	Glucose production from potato peel waste under microwave irradiation. Journal of Molecular Catalysis A, 2016, 417, 163-167.	4.8	22
431	Hybrid Chitosan-Silver Nanoparticles Enzymatically Embedded on Cork Filter Material for Water Disinfection. Industrial & Engineering Chemistry Research, 2017, 56, 3599-3606.	1.8	22
432	Ultrafine Highly Magnetic Fluorescent ⁵⁷ Fe ₂ O ₃ /NCD Nanocomposites for Neuronal Manipulations. ACS Omega, 2018, 3, 1897-1903.	1.6	22

#	ARTICLE	IF	CITATIONS
433	Ultrafine Ruthenium Oxide Nanoparticles Supported on Molybdenum Oxide Nanosheets as Highly Efficient Electrocatalyst for Hydrogen Evolution in Acidic Medium. <i>ChemCatChem</i> , 2019, 11, 1495-1502.	1.8	22
434	Synthesis of Doped/Hybrid Carbon Dots and Their Biomedical Application. <i>Nanomaterials</i> , 2022, 12, 898.	1.9	22
435	Does the Self-Assembled Coating of Magnetic Nanoparticles Cover Individual Particles or Agglomerates?. <i>Advanced Materials</i> , 1998, 10, 1529-1532.	11.1	21
436	Organized Silica Microspheres Carrying Ferromagnetic Cobalt Nanoparticles as a Basis for Tip Arrays in Magnetic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10234-10242.	1.2	21
437	Sonochemical synthesis of nanocrystallites of ruthenium sulfide, RuS _{1.7} . <i>Journal of Materials Chemistry</i> , 2000, 10, 2769-2773.	6.7	21
438	Magnetic field guided formation of long carbon filaments (sausages). <i>Carbon</i> , 2004, 42, 2738-2741.	5.4	21
439	Synthesis of a Conducting SiO ₂ @Carbon Composite from Commercial Silicone Grease and Its Conversion to Paramagnetic SiO ₂ Particles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13420-13424.	1.2	21
440	The Thermal Decomposition of Three Magnetic Acetates at Their Autogenic Pressure Yields Different Products. Why?. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2089-2096.	1.0	21
441	Electrochemical reduction of trinitrotoluene on core-shell tin-carbon electrodes. <i>Electrochimica Acta</i> , 2008, 54, 690-697.	2.6	21
442	Sonochemical deposition of magnetite on silver nanocrystals. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 132-135.	3.8	21
443	Microspheres of Mixed Proteins. <i>Chemistry - A European Journal</i> , 2010, 16, 2108-2114.	1.7	21
444	Infrared-wave number-dependent metal-insulator transition in vanadium dioxide nanoparticles. <i>Applied Physics Letters</i> , 2010, 96, 243111.	1.5	21
445	Chemical disorder influence on magnetic state of optimally-doped La _{0.7} Ca _{0.3} MnO ₃ . <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	21
446	New Life for an Old Antibiotic. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7324-7333.	4.0	21
447	Tetracycline Nanoparticles as Antibacterial and Gene-Silencing Agents. <i>Advanced Healthcare Materials</i> , 2015, 4, 723-728.	3.9	21
448	Bioethanol production from <i>Ficus religiosa</i> leaves using microwave irradiation. <i>Journal of Environmental Management</i> , 2016, 177, 20-25.	3.8	21
449	One-step surface grafting of organic nanoparticles: in situ deposition of antimicrobial agents vanillin and chitosan on polyethylene packaging films. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2655-2661.	2.9	21
450	A Short Report on the Polymerization of Pyrrole and Its Copolymers by Sonochemical Synthesis of Fluorescent Carbon Dots. <i>Polymers</i> , 2019, 11, 1240.	2.0	21

#	ARTICLE	IF	CITATIONS
451	Preparation and magnetic properties of nanosized amorphous ternary Fe-Ni-Co alloy powders. <i>Journal of Materials Research</i> , 2000, 15, 332-337.	1.2	20
452	Growth of carbon sausages filled with in situ formed tungsten oxide nanorods: thermal dissociation of tungsten(vi) isopropoxide in isopropanol. <i>New Journal of Chemistry</i> , 2006, 30, 370.	1.4	20
453	Synthesis of Air Stable FeCo/C Alloy Nanoparticles by Decomposing a Mixture of the Corresponding Metal-Acetyl Acetonates under Their Autogenic Pressure. <i>Inorganic Chemistry</i> , 2011, 50, 1288-1294.	1.9	20
454	Substrates coated with silver nanoparticles as a neuronal regenerative material. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 1, 23.	3.3	20
455	Chiral imprinting in molten gallium. <i>New Journal of Chemistry</i> , 2015, 39, 2690-2696.	1.4	20
456	Fabrication of a Stable and Efficient Antibacterial Nanocoating of Zn-CuO on Contact Lenses. <i>ChemNanoMat</i> , 2016, 2, 547-551.	1.5	20
457	Preparation and Catalytic Activity of Thermosensitive Ga ₂ O ₃ Nanorods. <i>Energy & Fuels</i> , 2016, 30, 7419-7427.	2.5	20
458	Solar-energy-driven conversion of biomass to bioethanol: a sustainable approach. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15486-15506.	5.2	20
459	Solar-Light-Driven Photocatalytic Activity of Novel Sn-Modified TiO ₂ Catalyst. <i>ChemistrySelect</i> , 2017, 2, 6683-6688.	0.7	20
460	Emission spectra of homonuclear diatomic rare gas molecules in solid neon. <i>Journal of Chemical Physics</i> , 1973, 59, 1630-1633.	1.2	19
461	Acoustic cavitation—an efficient energetic tool to synthesize nanosized Cu-ZrO ₂ catalysts with a mesoporous distribution. <i>New Journal of Chemistry</i> , 2006, 30, 102-107.	1.4	19
462	Implementation of an Electric Field (AC and DC) for the Growth of Carbon Filaments via Reaction under Autogenic Pressure at Elevated Temperatures of Mesitylene without Catalyst or Solvent. <i>Chemistry of Materials</i> , 2006, 18, 1512-1519.	3.2	19
463	Synthesis and characterization of titanium nitride, niobium nitride, and tantalum nitride nanocrystals via the RAPET (reaction under autogenic pressure at elevated temperature) technique. <i>Journal of Nanoparticle Research</i> , 2009, 11, 995-1003.	0.8	19
464	One-step sonochemical preparation of redox-responsive nanocapsules for glutathione mediated RNA release. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6020-6029.	2.9	19
465	The sonochemical approach improves the CuO-ZnO/TiO ₂ catalyst for WGS reaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7521-7530.	1.3	19
466	Synergistic catalytic effect of the ZnBr ₂ -HCl system for levulinic acid production using microwave irradiation. <i>RSC Advances</i> , 2015, 5, 11043-11048.	1.7	19
467	Facile sonochemical preparation and magnetic properties of strontium hexaferrite (SrFe ₁₂ O ₁₉) nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5707-5714.	1.1	19
468	In situ formation of carbon dots aids ampicillin sensing. <i>Analytical Methods</i> , 2016, 8, 2441-2447.	1.3	19

#	ARTICLE	IF	CITATIONS
469	Antiparasitic Ointment Based on a Biocompatible Carbon Dot Nanocomposite. <i>ACS Applied Nano Materials</i> , 2018, 1, 1784-1791.	2.4	19
470	Zinc-doped copper oxide nanocomposites reverse temozolomide resistance in glioblastoma by inhibiting AKT and ERK1/2. <i>Nanomedicine</i> , 2018, 13, 1303-1318.	1.7	19
471	Hazard assessment of polymer-capped CuO and ZnO nanocolloids: A contribution to the safe-by-design implementation of biocidal agents. <i>NanoImpact</i> , 2020, 17, 100195.	2.4	19
472	Preparing a Stable Colloidal Solution of Hydrous YSZ by Sonication. <i>Langmuir</i> , 2001, 17, 3223-3226.	1.6	18
473	Critical current density in the MgB ₂ nanoparticles prepared under autogenic pressure at elevated temperature. <i>Chemical Physics Letters</i> , 2006, 433, 115-119.	1.2	18
474	A facile one-pot sonochemical synthesis of surface-coated mannosyl protein microspheres for detection and killing of bacteria. <i>Chemical Communications</i> , 2011, 47, 12277.	2.2	18
475	Direct production of glucose from glycogen under microwave irradiation. <i>RSC Advances</i> , 2012, 2, 7262.	1.7	18
476	MgF ₂ nanoparticle-coated teeth inhibit <i>Streptococcus mutans</i> biofilm formation on a tooth model. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3985.	2.9	18
477	An ultrasonic technology for production of antibacterial nanomaterials and their coating on textiles. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 532-536.	1.5	18
478	Rhenium Sulfide Incorporated in Molybdenum Sulfide Nanosheets for High-Performance Symmetric Supercapacitors with Enhanced Capacitance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18570-18577.	4.0	18
479	Catalytic Transformation of Carbon Black to Carbon Nanotubes. <i>Chemistry of Materials</i> , 2002, 14, 4498-4501.	3.2	17
480	Fabrication, Characterization, and Printing of Conductive Ink Based on Multi Core-Shell Nanoparticles Synthesized by RAPET. <i>Advanced Functional Materials</i> , 2013, 23, 5794-5799.	7.8	17
481	Enhanced activity of immobilized pepsin nanoparticles coated on solid substrates compared to free pepsin. <i>Enzyme and Microbial Technology</i> , 2014, 67, 67-76.	1.6	17
482	Fabrication of poly (4,4'-oxybisbenzamine) and its conjugated copolymers initiated by easily accessible carbon dots. <i>European Polymer Journal</i> , 2018, 109, 153-161.	2.6	17
483	Microwave-Assisted Preparation, Morphological, and Photoacoustic Studies of the Na ₄ SnSe ₄ , K ₄ Sn ₂ Se ₆ , and K ₄ Sn ₃ Se ₈ , Zintl Molecular Sn-Se Oligomers. <i>Journal of Solid State Chemistry</i> , 2002, 165, 125-130.	1.4	16
484	The synthesis and magnetic properties of monodispersed single-domain nickel nanospheres and highly globular nanostructures of Ni@NiO shell. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 301, 13-21.	1.0	16
485	External Magnetic Field-Induced Mesoscopic Organization of Fe ₃ O ₄ Pyramids and Carbon Sheets. <i>Inorganic Chemistry</i> , 2007, 46, 4951-4959.	1.9	16
486	Synthesis of carbon encapsulated nanocrystals of WP by reacting W(CO) ₆ with triphenylphosphine at elevated temperature under autogenic pressure. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1187-1193.	0.8	16

#	ARTICLE	IF	CITATIONS
487	Surface-modified protein nanospheres as potential antiviral agents. <i>Chemical Communications</i> , 2012, 48, 8359.	2.2	16
488	Proteinaceous microspheres for targeted RNA delivery prepared by an ultrasonic emulsification method. <i>Journal of Materials Chemistry B</i> , 2013, 1, 82-90.	2.9	16
489	Forming Nanospherical Cellulose Containers. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13871-13880.	1.8	16
490	Heteropoly acid catalyzed hydrolysis of glycogen to glucose. <i>Biomass and Bioenergy</i> , 2015, 76, 61-68.	2.9	16
491	Assessment of holocellulose for the production of bioethanol by conserving <i>Pinus radiata</i> cones as renewable feedstock. <i>Journal of Environmental Management</i> , 2015, 162, 215-220.	3.8	16
492	Effect of different densities of silver nanoparticles on neuronal growth. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	16
493	Zinc-Doped Copper Oxide Nanocomposites Inhibit the Growth of Pancreatic Cancer by Inducing Autophagy Through AMPK/mTOR Pathway. <i>Frontiers in Pharmacology</i> , 2019, 10, 319.	1.6	16
494	Extending the Shelf Life of Strawberries by the Sonochemical Coating of their Surface with Nanoparticles of an Edible Anti-Bacterial Compound. <i>Applied Nano</i> , 2021, 2, 14-24.	0.9	16
495	One-Pot Synthesis of Deep Blue Hydrophobic Carbon Dots with Room Temperature Phosphorescence, White Light Emission, and Explosive Sensor. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	16
496	Sonochemical polymerization of diphenylmethane. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 11-15.	3.8	15
497	The sonochemical preparation of a mesoporous NiO/yttria stabilized zirconia composite. <i>Microporous and Mesoporous Materials</i> , 2003, 60, 91-97.	2.2	15
498	Air stable core-shell multilayer metallic nanoparticles synthesized by RAPET: fabrication, characterization and suggested applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 15025.	6.7	15
499	Encapsulating bioactive materials in sonochemically produced micro- and nano-spheres. <i>Journal of Materials Chemistry B</i> , 2013, 1, 595-605.	2.9	15
500	Utilization of solar energy for continuous bioethanol production for energy applications. <i>RSC Advances</i> , 2016, 6, 24203-24209.	1.7	15
501	Sonochemical One-Step Synthesis of Polymer-Capped Metal Oxide Nanocolloids: Antibacterial Activity and Cytotoxicity. <i>ACS Omega</i> , 2019, 4, 13631-13639.	1.6	15
502	Cellulose Nanocrystals (CNC)-Based Functional Materials for Supercapacitor Applications. <i>Nanomaterials</i> , 2022, 12, 1828.	1.9	15
503	Coating nanosized iron oxide particles on submicrospherical alumina by a sonochemical method. <i>Journal of Materials Chemistry</i> , 1998, 8, 2167-2168.	6.7	14
504	The Formation of Carbon-Coated MgO Cubes and Carbon Cubes. <i>Advanced Materials</i> , 2002, 14, 1169.	11.1	14

#	ARTICLE	IF	CITATIONS
505	Encapsulating a Superconducting Material, MgCNi ₃ , in a Carbon Nanoflask. <i>Advanced Materials</i> , 2004, 16, 972-975.	11.1	14
506	Preparation and Characterization of Cu ₂ SnSe ₄ Nanoparticles Using a Microwave-Assisted Polyol Method. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1859-1864.	1.0	14
507	Ultrasound-assisted dispersion of SrFe ₁₂ O ₁₉ nanoparticles in organic solvents and the use of the dispersion as magnetic cosmetics. <i>Journal of Nanoparticle Research</i> , 2008, 10, 191-195.	0.8	14
508	Effect of Reaction Parameters on the Hydrolysis of Tetramethyl Orthosilicate and Tetraethyl Orthosilicate and their Surface Morphology in an Ionic Liquid. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3024-3030.	1.9	14
509	Solid state synthesis of water-dispersible silicon nanoparticles from silica nanoparticles. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1442-1447.	1.4	14
510	Design of a selective solid acid catalyst for the optimization of glucose production from <i>Oryza sativa</i> straw. <i>RSC Advances</i> , 2016, 6, 31-38.	1.7	14
511	One-pot Sonochemical Synthesis of Hg-Ag Alloy Microspheres from Liquid Mercury. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 157-165.	3.8	14
512	Antimicrobial Properties of the Polyaniline Composites against <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> . <i>Journal of Functional Biomaterials</i> , 2020, 11, 59.	1.8	14
513	Sonochemically engineered nano-enabled zinc oxide/amylase coatings prevent the occurrence of catheter-associated urinary tract infections. <i>Materials Science and Engineering C</i> , 2021, 131, 112518.	3.8	14
514	Designing Natural Polymer-Based Capsules and Spheres for Biomedical Applications—A Review. <i>Polymers</i> , 2021, 13, 4307.	2.0	14
515	New Method for Nanofabrication of Structures Analogous to Core-Shell Vesicles. <i>Advanced Materials</i> , 1999, 11, 1289-1292.	11.1	13
516	Sonochemical Synthesis and Characterization of Ni(C ₄ H ₆ N ₂) ₆ (PF ₆) ₂ , Fe(C ₄ H ₆ N ₂) ₆ (BF ₄) ₂ , and Ni(C ₄ H ₆ N ₂) ₆ (BF ₄) ₂ in 1-Butyl-3-methylimidazole with Hexafluorophosphate and Tetrafluoroborate. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2669-2677.	1.0	13
517	The dependence of the oriented growth of carbon filaments on the intensity of a magnetic field. <i>Carbon</i> , 2006, 44, 1913-1918.	5.4	13
518	Phase transition from the ferromagnetic to superparamagnetic with a loop shift in 5-nm nickel particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 504-508.	1.0	13
519	Selective oxidation of CO in the presence of air over gold-based catalysts Au/TiO ₂ /C (sonochemistry) and Au/TiO ₂ /C (microwave). <i>Ultrasonics Sonochemistry</i> , 2008, 15, 539-547.	3.8	13
520	Modification of Parylene film-coated glass with TiO ₂ nanoparticles and its photocatalytic properties. <i>Surface and Coatings Technology</i> , 2011, 205, 3190-3197.	2.2	13
521	Synthesis of amino acid block-copolymer imprinted chiral mesoporous silica and its acoustically-induced optical Kerr effects. <i>Journal of Solid State Chemistry</i> , 2012, 192, 127-131.	1.4	13
522	Silver Nanoparticles Promote Neuronal Growth. <i>Procedia Engineering</i> , 2013, 59, 25-29.	1.2	13

#	ARTICLE	IF	CITATIONS
523	Reduction of metallic ions by molten gallium under ultrasonic irradiation and interactions between the formed metals and the gallium. <i>Journal of Alloys and Compounds</i> , 2015, 637, 538-544.	2.8	13
524	Hydrophobic coating of GaAs surfaces with nanostructured ZnO. <i>Materials Letters</i> , 2016, 175, 101-105.	1.3	13
525	A topical antibacterial ointment made of Zn-doped copper oxide nanocomposite. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	13
526	Ga Modified Zeolite Based Solid Acid Catalyst for Levulinic Acid Production. <i>ChemistrySelect</i> , 2016, 1, 5952-5960.	0.7	13
527	Cytotoxic and proinflammatory responses induced by ZnO nanoparticles in in vitro intestinal barrier. <i>Journal of Applied Toxicology</i> , 2019, 39, 1155-1163.	1.4	13
528	Bifunctional Carbon Dots—Magnetic and Fluorescent Hybrid Nanoparticles for Diagnostic Applications. <i>Nanomaterials</i> , 2020, 10, 1384.	1.9	13
529	Nitrogen-Enriched Porous Benzimidazole-Linked Polymeric Network for the Adsorption of La (III), Ce (III), and Nd (III). <i>Journal of Physical Chemistry C</i> , 2020, 124, 6206-6214.	1.5	13
530	Nitrogen-doped carbon dots as a highly selective and sensitive fluorescent probe for sensing Mg ²⁺ ions in aqueous solution, and their application in the detection and imaging of intracellular Mg ²⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131958.	4.0	13
531	Carbon Nanoflask: A Mechanistic Elucidation of Its Formation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9769-9776.	1.2	12
532	Forming multiwalled carbon nanotubes by the thermal decomposition of Mo(CO) ₆ . <i>Chemical Physics Letters</i> , 2002, 357, 267-271.	1.2	12
533	Sonochemical and soft-chemical intercalation of lithium ions into MnO ₂ polymorphs. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 957-967.	1.2	12
534	Sonochemistry and Other Novel Methods Developed for the Synthesis of Nanoparticles. , 2005, , 113-169.		12
535	New Approach for the Removal of Metal Ions from Water: Adsorption onto Aquatic Plants and Microwave Reaction for the Fabrication of Nanometals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15179-15181.	1.2	12
536	Synthesis of Ferromagnetic Core-Shell Nanofibers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16781-16786.	1.5	12
537	A microwave-assisted process for coating polymer and glass surfaces with semiconducting ZnO submicron particles. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1773-1780.	1.3	12
538	Attaching Different Kinds of Proteinaceous Nanospheres to a Variety of Fabrics Using Ultrasound Radiation. <i>Israel Journal of Chemistry</i> , 2010, 50, 524-529.	1.0	12
539	Electron paramagnetic resonance study of size and nonstoichiometry effects on magnetic ordering in half-doped La _{0.5} Ca _{0.5} MnO ₃ manganite. <i>Journal of Applied Physics</i> , 2010, 107, 09D702.	1.1	12
540	Removal of Silver and Lead Ions from Water Wastes Using <i>Azolla filiculoides</i> , an Aquatic Plant, Which Adsorbs and Reduces the Ions into the Corresponding Metallic Nanoparticles Under Microwave Radiation in 5 Åmin. <i>Water, Air, and Soil Pollution</i> , 2011, 218, 365-370.	1.1	12

#	ARTICLE	IF	CITATIONS
541	Releasing Dye Encapsulated in Proteinaceous Microspheres on Conductive Fabrics by Electric Current. ACS Applied Materials & Interfaces, 2012, 4, 2926-2930.	4.0	12
542	Topographical impact of silver nanolines on the morphology of neuronal SH-SY5Y Cells. Journal of Materials Chemistry B, 2017, 5, 9346-9353.	2.9	12
543	Sonochemical fabrication of edible fragrant antimicrobial nano coating on textiles and polypropylene cups. Ultrasonics Sonochemistry, 2017, 38, 614-621.	3.8	12
544	Zn-doped CuO nanocomposites inhibit tumor growth by NF- κ B pathway cross-linked autophagy and apoptosis. Nanomedicine, 2019, 14, 131-149.	1.7	12
545	Electrochemical Oxidation of Glycine with Bimetallic Nickel-Manganese Oxide Catalysts. ChemElectroChem, 2020, 7, 561-568.	1.7	12
546	CuO-Coated Antibacterial and Antiviral Car Air-Conditioning Filters. ACS Applied Materials & Interfaces, 2022, 14, 24850-24855.	4.0	12
547	High loading of short W(Mo)S ₂ slabs inside the nanotubes of SBA-15. Promotion with Ni(Co) and performance in hydrodesulfurization and hydrogenation.. Studies in Surface Science and Catalysis, 2003, 146, 721-724.	1.5	11
548	The sonochemical and microwave-assisted synthesis of nanosized YAG particles. New Journal of Chemistry, 2005, 29, 1445.	1.4	11
549	Preparation and properties of CuCr ₂ Se ₄ ferromagnetic spinel nanocrystals. Glass Physics and Chemistry, 2006, 32, 330-336.	0.2	11
550	Synthesis of stable spherical platinum diphosphide, PtP ₂ /carbon nanocomposite by reacting Pt(PPh ₃) ₄ at elevated temperature under autogenic pressure. Materials Research Bulletin, 2007, 42, 626-632.	2.7	11
551	Reduction of Titanium Dioxide to Metallic Titanium Conducted under the Autogenic Pressure of the Reactants. Inorganic Chemistry, 2009, 48, 7066-7069.	1.9	11
552	One-step synthesis of prolate spheroidal-shaped carbon produced by the thermolysis of octene under its autogenic pressure. Carbon, 2011, 49, 1067-1074.	5.4	11
553	Antibody modified Bovine Serum Albumin microspheres for targeted delivery of anticancer agent Gemcitabine. Polymers for Advanced Technologies, 2013, 24, 294-299.	1.6	11
554	Highly efficient silver particle layers on glass substrate synthesized by the sonochemical method for surface enhanced Raman spectroscopy purposes. Ultrasonics Sonochemistry, 2016, 32, 165-172.	3.8	11
555	Doping Effect on the Thermal Conductivity of Metal Oxide Nanofluids: Insight and Mechanistic Investigation. Journal of Physical Chemistry C, 2017, 121, 26551-26557.	1.5	11
556	Continuous Waste Cooking Oil Transesterification with Microwave Heating and Strontium Oxide Catalyst. Chemical Engineering and Technology, 2018, 41, 192-198.	0.9	11
557	Antibacterial and physical properties of a novel sonochemical-assisted Zn-CuO contact lens nanocoating. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 95-100.	1.0	11
558	Antibacterial and In Vivo Studies of a Green, One-Pot Preparation of Copper/Zinc Oxide Nanoparticle-Coated Bandages. Membranes, 2021, 11, 462.	1.4	11

#	ARTICLE	IF	CITATIONS
559	Engineering of superhydrophobic silica microparticles and thin coatings on polymeric films by ultrasound irradiation. <i>Materials Today Chemistry</i> , 2021, 21, 100520.	1.7	11
560	Element (B, N, P) doped carbon dots interaction with neural cells: promising results and future prospective. , 2019, , .		11
561	Crystallization of ZnO on Crystalline Magnetite Nanoparticles in the Presence of Ultrasound Radiation. <i>Crystal Growth and Design</i> , 2006, 6, 2260-2265.	1.4	10
562	Magnetic properties of dense graphitic filaments formed via thermal decomposition of mesitylene in an applied electric field. <i>Carbon</i> , 2006, 44, 2864-2867.	5.4	10
563	Synthesis, Characterization, and Photoluminescence Properties of In ₂ O ₃ Nanocrystals Encapsulated by Carbon Vesicles and Neat In ₂ O ₃ Nanocrystals Generated by the RAPET Technique. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 919-924.	1.0	10
564	Paramagnetic spin correlations and spin dynamics in doped manganites as the precursors of their magnetic ordering. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	10
565	Depositing nanoparticles inside millimeter-size hollow tubing. <i>Applied Surface Science</i> , 2012, 258, 2368-2372.	3.1	10
566	Visible light-induced OH radicals in Ga ₂ O ₃ : an EPR study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12977.	1.3	10
567	Power ultrasound for the production of nanomaterials. , 2015, , 543-576.		10
568	The interaction between molten gallium and the hydrocarbon medium induced by ultrasonic energy—can gallium carbide be formed?. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3305-3315.	1.9	10
569	A facile method for the deposition of volatile natural compound-based nanoparticles on biodegradable polymer surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2240-2249.	2.9	10
570	Imparting superhydrophobic and biocidal functionalities to a polymeric substrate by the sonochemical method. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 398-403.	3.8	10
571	Sustainable existence of solid mercury (Hg) nanoparticles at room temperature and their applications. <i>Chemical Science</i> , 2021, 12, 3226-3238.	3.7	10
572	Biocompatible N-doped carbon dots for the eradication of methicillin-resistant <i>S. aureus</i> (MRSA) and sensitive analysis for europium (III). <i>Nano Structures Nano Objects</i> , 2021, 26, 100724.	1.9	10
573	Facile ultrasonic preparation of a polypyrrole membrane as an absorbent for efficient oil-water separation and as an antimicrobial agent. <i>Ultrasonics Sonochemistry</i> , 2021, 78, 105746.	3.8	10
574	Sonochemistry and Sonoluminescence in Simulated Ultrasound-assisted Lipoplasty Environment—t, â††â††, â˜.... <i>Aesthetic Surgery Journal</i> , 1999, 19, 205-212.	0.9	9
575	Preparation and coating of molybdenum oxide on alumina submicrospheres by sonochemical method. <i>Journal of Materials Research</i> , 2000, 15, 393-401.	1.2	9
576	Triangular Core—Shell ZnO@SiO ₂ Nanoparticles. <i>ChemPhysChem</i> , 2013, 14, 3215-3220.	1.0	9

#	ARTICLE	IF	CITATIONS
577	Sonochemically synthesized Ag nanoparticles as a SERS active substrate and effect of surfactant. Applied Surface Science, 2015, 331, 219-224.	3.1	9
578	Formation of metallic silver and copper in non-aqueous media by ultrasonic radiation. Ultrasonics Sonochemistry, 2018, 47, 108-113.	3.8	9
579	Sonochemically Prepared BSA Microspheres as Adsorbents for the Removal of Organic Pollutants from Water. Langmuir, 2021, 37, 9927-9938.	1.6	9
580	Comparative electron magnetic resonance study of magnetic ordering in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.1,0.3$) bulk and nanometer sized manganite crystals. Journal of Applied Physics, 2008, 103, 07F715.	1.1	8
581	Synthesis of Ni ₃ S ₂ and NiSe nanoparticles encapsulated in carbon shell and coating these onto stainless steel surfaces by RAPET. RSC Advances, 2012, 2, 11725.	1.7	8
582	Synthesis of metal-carbon core-shell nanoparticles by RAPET (Reaction under Autogenic Pressure at Tj ETQq0,0 0 rgBT /Overlock 1	1.4	8
583	Graphene oxide microspheres prepared by a simple, one-step ultrasonication method. New Journal of Chemistry, 2012, 36, 36-39.	1.4	8
584	Using Microwave Radiation and SrO as a Catalyst for the Complete Conversion of Oils, Cooked Oils, and Microalgae to Biodiesel. , 2013, , 209-227.		8
585	Solar-Energy Driven Simultaneous Saccharification and Fermentation of Starch to Bioethanol for Fuel-Cell Applications. ChemSusChem, 2015, 8, 3497-3503.	3.6	8
586	Ultrasonic Coating of Textiles by Antibacterial and Antibiofilm Nanoparticles. , 2016, , 967-993.		8
587	Surfactant Effect on the Thermal and Electrical Behaviors of Sonochemically Synthesized Fe and Fe-PVP Nanofluids and Insight into the Magnetism of Their in Situ Oxidized Fe_2O_3 Analogues. Journal of Physical Chemistry C, 2018, 122, 20755-20762.	1.5	8
588	Tribological Anti-Wear and Extreme-Pressure Performance of Multifunctional Metal and Nonmetal Doped C-based Nanodots. Lubricants, 2019, 7, 36.	1.2	8
589	The sonochemical functionalization of textiles. , 2019, , 161-198.		8
590	An efficient method to produce 1,4-pentanediol from the biomass of the algae Chlorella ohadi with levulinic acid as intermediate. Bioresource Technology Reports, 2020, 11, 100514.	1.5	8
591	Silica-Supported Nitrogen-Enriched Porous Benzimidazole-Linked and Triazine-Based Polymers for the Adsorption of CO_2 . Langmuir, 2020, 36, 4280-4288.	1.6	8
592	The Sonochemical Insertion of Nanomaterials into Mesostructures. Transactions of the Indian Ceramic Society, 2004, 63, 137-144.	0.4	7
593	A general method for preparing tellurides: Synthesis of PbTe, Ni ₂ Te ₃ , and Cu ₇ Te ₅ from solutions under microwave radiation. Glass Physics and Chemistry, 2005, 31, 80-85.	0.2	7
594	A study of the stability of pyrolytic carbon-coated Fe/SiO ₂ composites in HNO ₃ and the effect of pyrolysis temperatures on their magnetic properties. Solid State Communications, 2007, 142, 265-269.	0.9	7

#	ARTICLE	IF	CITATIONS
595	Magnetic inhomogeneities in crystalline bulk and nanometer sized $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$: ESR probing. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4554-4557.	0.7	7
596	Effects of a 10 T External Magnetic Field on the Thermal Decomposition of Fe, Ni, and Co Acetyl Acetonates. <i>Langmuir</i> , 2008, 24, 7532-7537.	1.6	7
597	Deposition of Air-Stable Zinc Nanoparticles on Glass Slides by the Solvent-Assisted Deposition in Plasma (SADIP) Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14097-14101.	1.5	7
598	Nanometer size effects on magnetic order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.5$ and 0.6) manganites, probed by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2012, 111, 07D701.	1.1	7
599	Carbon nanoparticles based non-enzymatic glucose sensor. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 28-35.	1.8	7
600	Synthesis of WS_2 and WSe_2 nanowires on stainless steel coupon by reaction under autogenic pressure at elevated temperature method. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 855-862.	1.6	7
601	Sonochemically modified ovalbumin enhances enantioenrichment of some amino acids. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104603.	3.8	7
602	Trapping Metallic Liquid Mercury in a Carbon Shell by the Decomposition of Dimethyl Mercury. <i>Advanced Materials</i> , 2008, 20, 1000-1002.	11.1	6
603	One Pot, Environmentally Benign, Thermal Reaction to Fabricate WSe_2 and MoSe_2 Nanoplates. <i>Journal of Nano Research</i> , 0, 3, 15-24.	0.8	6
604	Selective Coating of Anatase and Rutile TiO_2 on Carbon via Ultrasound Irradiation: Mitigating Fuel Cell Catalyst Degradation. <i>Journal of Fuel Cell Science and Technology</i> , 2008, 5, .	0.8	6
605	Chemical reactions under autogenic pressure at elevated temperature to fabricate photo-luminescent Ga_2O_3 nanocrystals and their coatings. <i>RSC Advances</i> , 2011, 1, 619.	1.7	6
606	Magnetic properties of CdMnTe/C nanocrystals. <i>Nanotechnology</i> , 2011, 22, 075703.	1.3	6
607	Thermal and structural characterization of ultrasonicated BiSn alloy in the eutectic composition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1543-1551.	2.0	6
608	A New Approach to Chiral Enrichment by Exposure of Racemates of Amino Acids to Sonochemically Prepared BSA Microspheres. <i>ChemistrySelect</i> , 2017, 2, 8234-8238.	0.7	6
609	Type-I superconductivity in carbon-coated Sn nano-spheres. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 546, 6-10.	0.6	6
610	The Sonochemical Coating of Textiles With Antibacterial Nanoparticles. , 2018, , 235-255.		6
611	Enantioselective Separation of Racemic Tryptophan with Sonochemically Prepared Egg Albumin Microspheres. <i>ChemistrySelect</i> , 2018, 3, 4004-4008.	0.7	6
612	In vitro copper oxide nanoparticle toxicity on intestinal barrier. <i>Journal of Applied Toxicology</i> , 2021, 41, 291-302.	1.4	6

#	ARTICLE	IF	CITATIONS
613	Imparting Pharmaceutical Applications to the Surface of Fabrics for Wound and Skin Care by Ultrasonic Waves. <i>Current Medicinal Chemistry</i> , 2019, 25, 5739-5754.	1.2	6
614	Effective degradation of cellulose by Microwave irradiation in alkaline solution. <i>Cellulose</i> , 2021, 28, 11275-11285.	2.4	6
615	Influence of pH on the Structure of the Aqueous Sonolysis Products of Manganese(III) Acetylacetonate. <i>Journal of Materials Research</i> , 2002, 17, 1706-1710.	1.2	5
616	Fabrication of the Mg ₂ CxCo ₃ Ternary Phase Encapsulated in Carbon Nanoflasks. <i>Advanced Materials</i> , 2003, 15, 926-930.	11.1	5
617	In situ sonochemical hydrolysis and deposition of composite layers of ionic liquid entrapped in colloidal silica network and their application as sensors for various gases. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 726-729.	3.8	5
618	Strontium hexaferrite nanomagnets suspended in a cosmetic preparation: a convenient tool to evaluate the biological effects of surface magnetism on human skin. <i>Skin Research and Technology</i> , 2010, 16, 316-24.	0.8	5
619	Corrugation of the external surface of multiwall carbon nanotubes by catalytic oxidative etching and its effect on their decoration with metal nanoparticles. <i>Journal of Materials Science</i> , 2011, 46, 2162-2172.	1.7	5
620	Sonochemical coating of textile fabrics with antibacterial nanoparticles. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	5
621	Optimizing algal lipid production and its efficient conversion to biodiesel. <i>Biofuels</i> , 2014, 5, 405-413.	1.4	5
622	Employing Novel Techniques (Microwave and Sonochemistry) in the Synthesis of Biodiesel and Bioethanol. <i>Biofuels and Biorefineries</i> , 2015, , 159-185.	0.5	5
623	In vitro studies of polyethyleneimine coated miRNA microspheres as anticancer agents. <i>Nano Research</i> , 2016, 9, 1609-1617.	5.8	5
624	Effects of the 3D sizing of polyacrylonitrile fabric with carbon nanotubeâ€“SP1 protein complex on the interfacial properties of polyacrylonitrile/phenolic composites. <i>Journal of Composite Materials</i> , 2016, 50, 1031-1036.	1.2	5
625	Can r-graphene oxide replace the noble metals in SERS studies: the detection of acrylamide. <i>Environmental Chemistry</i> , 2016, 13, 58.	0.7	5
626	Stiffening of Metallic Gallium Particles by Entrapment of Organic Molecules. <i>Crystal Growth and Design</i> , 2017, 17, 2041-2045.	1.4	5
627	Synthesis of Long Silver Nanowires from AgBr Nanocrystals. <i>Advanced Materials</i> , 2001, 13, 656-658.	11.1	5
628	Ultrasonic assisted synthesis of styrylpyridinium dyes: Optical properties and DFT calculations. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105182.	3.8	5
629	Synthesis and characterization of Fe ₃ Co ₇ alloy encapsulated in carbon nanoflasks. <i>Journal of Materials Chemistry</i> , 2003, 13, 663-665.	6.7	4
630	The sonochemical preparation of lamellar MoO _x . <i>Journal of Materials Chemistry</i> , 2003, 13, 2851.	6.7	4

#	ARTICLE	IF	CITATIONS
631	An easy single step route to synthesize open-ended carbon nanotubes. Carbon, 2008, 46, 1615-1619.	5.4	4
632	Differential Adsorption of Silver Nanoparticles to the Inner and Outer Surfaces of the Agave americana Cuticle. Journal of Physical Chemistry C, 2008, 112, 18082-18086.	1.5	4
633	Fabrication of Magnetic Nanoparticles Using RAPET Technique with or without Employing External Magnetic Field. Journal of Physical Chemistry C, 2008, 112, 6627-6637.	1.5	4
634	Fabrication of $(La_{1-x}Gd_x)_2/3Sr_{1/3}MnO_3$ Manganite Perovskite Nanorods by Sonication-Assisted Coprecipitation. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1385-1390.	0.8	4
635	DNA Microspheres Coated with Bioavailable Polymer as an Efficient Gene Expression Agent in Yeasts. Journal of Nanomaterials, 2016, 2016, 1-8.	1.5	4
636	Making the hospital a safer place by the sonochemical coating of textiles by antibacterial nanoparticles. , 2016, , 71-105.		4
637	Surfactant-free synthesis of a water-soluble PEGylated nanographeneoxide/metal-oxide nanocomposite as engineered antimicrobial weaponry. Journal of Materials Chemistry B, 2016, 4, 6706-6715.	2.9	4
638	On the nature of the nanospikes obtained in the sonication of a molten mixture of bismuth and indium under silicone oil. Journal of Alloys and Compounds, 2016, 672, 476-480.	2.8	4
639	Effect of sonochemistry: Li- and Mn-rich layered high specific capacity cathode materials for Li-ion batteries. Journal of Solid State Electrochemistry, 2016, 20, 1683-1695.	1.2	4
640	Eco-Friendly and Facile Preparation of Spherical Chitin Nanoparticles. ChemistrySelect, 2018, 3, 10787-10791.	0.7	4
641	Boosting Electrocatalytic Hydrogen Evolution of Nickel foam Supported Nickel Hydroxide by Ruthenium Doping. ChemistrySelect, 2020, 5, 9626-9634.	0.7	4
642	Facile Molecular Catalysis for Isomerization of Glucose to Fructose Using $KMnO_4$ in Water. ChemistrySelect, 2020, 5, 2913-2917.	0.7	4
643	A comprehensive study on the combustion kinetic modeling of typical electronic plastic waste—television set (TV) plastic shell. Journal of the Air and Waste Management Association, 2021, 71, 701-710.	0.9	4
644	Surfactant-Assisted Self-Organization of Cobalt Nanoparticles in a Magnetic Fluid. Advanced Materials, 1998, 10, 590-593.	11.1	4
645	Synergy between Cobalt-Chromium-Layered Double Hydroxide Nanosheets and Oxidized Carbon Nanotubes for Electrocatalytic Oxygen Evolution. ACS Applied Nano Materials, 2022, 5, 4091-4101.	2.4	4
646	Formation of Iron (III) Trimesate Xerogel by Ultrasonic Irradiation. European Journal of Inorganic Chemistry, 0, , .	1.0	4
647	Creation of Shock-Abrasion Resistance Build-up Metal Using a Physicochemical Model of High-Temperature Processes. Israel Journal of Chemistry, 2007, 47, 351-355.	1.0	3
648	A General Process for the Fabrication of Air-Stable Metallic Particles (Cd, Zn and Al) by the Decomposition of Alkyl-Metal Compounds. European Journal of Inorganic Chemistry, 2008, 2008, 2471-2475.	1.0	3

#	ARTICLE	IF	CITATIONS
649	Preparation of Ge@Organosilicon Core-Shell Structures and Characterization by Solid State NMR and Other Techniques. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11086-11094.	1.5	3
650	Forming nanoparticles of α -amylase and embedding them into solid surfaces. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 43-48.	1.8	3
651	Pre-miRNA expressing plasmid delivery for anti-cancer therapy. <i>MedChemComm</i> , 2014, 5, 459-462.	3.5	3
652	A novel sonochemical synthesis of antlerite nanorods. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 30-34.	3.8	3
653	Dispersion of Polymers in Metallic Gallium. <i>ChemPhysChem</i> , 2016, 17, 162-169.	1.0	3
654	AS101-Loaded PLGA-PEG Nanoparticles for Autoimmune Regulation and Chemosensitization. <i>ACS Applied Bio Materials</i> , 2019, 2, 2246-2251.	2.3	3
655	Entrapment and release kinetics study of dyes from BSA microspheres forming a matrix and a reservoir system. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10154-10161.	2.9	3
656	Cooperative crystallization effect in the formation of sonochemically grafted active materials based on polysaccharides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110931.	2.5	3
657	Polydopamine decorated carbon dots nanocomposite as an effective adsorbent for phenolic compounds. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51769.	1.3	3
658	Carrier relaxation dynamics of ZnxCd1-xSe/C core/shell nanocrystals with phase separation as studied by time-resolved cathodoluminescence. <i>Applied Physics Letters</i> , 2009, 95, 181903.	1.5	2
659	Synthesis and Characterization of Hierarchically Structured La ₂ O ₃ @C:Eu ³⁺ (M = S, Se) Microflowers by a Single-Step RAPET Method. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5685-5690.	1.0	2
660	The use of visible light and metal oxide nano particles for pathogen inactivation. , 2012, , .		2
661	Sonochemically-induced spectral shift as a probe of green fluorescent protein release from nano capsules. <i>RSC Advances</i> , 2014, 4, 10303-10309.	1.7	2
662	NMR studies of DNA microcapsules prepared using sonochemical methods. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2235-2240.	1.3	2
663	Functionalization of WS ₂ Nanotubes with Fluorescent Carbon Dots and Conductive Polythiophenes. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800476.	1.1	2
664	Microspheres of biomolecules/macromolecules for enantioseparation applications. <i>European Polymer Journal</i> , 2021, 142, 110145.	2.6	2
665	The catalytic production of biofuels (biodiesel and bioethanol) using sonochemical, microwave, and mechanical methods. , 2021, , 171-239.		2
666	Making salty cucumbers and honeyed apples by applying the sonochemical method. <i>Journal of Food Science and Technology</i> , 2021, 58, 4263-4269.	1.4	2

#	ARTICLE	IF	CITATIONS
667	Does the Self-Assembled Coating of Magnetic Nanoparticles Cover Individual Particles or Agglomerates?. <i>Advanced Materials</i> , 1998, 10, 1529-1532.	11.1	2
668	Co ₃ O ₄ CoP Core-Shell Nanoparticles with Enhanced Electrocatalytic Water Oxidation Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 9150-9158.	2.4	2
669	Circular dichroism of molecules requiring two substituents for chirality. <i>Molecular Physics</i> , 1991, 72, 803-815.	0.8	1
670	Novel Synthesis of Ordered MCM-41 Titanosilicates with Very High Titanium Content via Ultrasound Radiation. <i>Israel Journal of Chemistry</i> , 2004, 44, 235-241.	1.0	1
671	A general approach to directing assembly behavior of gold colloids by co-polymer molecules, and tracking and imaging solution nanostructures of the polymer molecules. <i>Soft Matter</i> , 2009, , .	1.2	1
672	Antibacterial, antiviral, and antibiofilms nanoparticles. , 2010, , .		1
673	Preparation of Antimicrobial Textiles Using a Sonochemical Method. <i>Recent Patents on Biomedical Engineering</i> , 2011, 4, 1-5.	0.5	1
674	The Immobilization of Polyethylene Imine Nano and Microspheres on Glass Using High Intensity Ultrasound. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, E267.	1.1	1
675	Ultrasonic Coating of Textiles by Antibacterial and Antibiofilm Nanoparticles. , 2015, , 1-27.		1
676	A New Approach to the Synthesis of Transition Metal Phosphide Nanocrystallites (MoP, MoP ₂ , Cu ₃ P) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> <i>International Journal of Nanoscience</i> , 2017, 16, 1650030.	0.4	1
677	Catalytic Aerobic Oxidation of Cycloalkanes with Nanostructured Amorphous Metals and Alloys. , 1999, 38, 3521.		1
678	Chiroptical properties of alcohols, ethers and peroxides. , 0, , 87-102.		1
679	INFLUENCE OF CRYSTALLITE SIZE ON THE PROPERTIES OF <i>SnO₂</i> NANOCRYSTALS. , 2002, , .		1
680	Effects of a ZnCuO-Nanocoated Ti-6Al-4V Surface on Bacterial and Host Cells. <i>Materials</i> , 2022, 15, 2514.	1.3	1
681	Boron-doped Carbon Dots with Surface Oxygen Functional Groups as a Highly Sensitive and Label-free Photoluminescence Probe for the Enhanced Detection of Mg ²⁺ Ions. <i>ChemistrySelect</i> , 2022, 7, .	0.7	1
682	Silicon Atoms as Intermediates in the Nonlinear Photochemistry of Si(CH ₃) _{4-n} Cl _n (n = 0, 1, 2, 3, 4) Compounds. <i>Laser Chemistry</i> , 1993, 13, 57-62.	0.5	0
683	Synthesis of air-stable iron-iron carbide nanocrystalline particles showing very high saturation magnetization. , 0, , .		0
684	Phase-separation in ZnxCd1-xSe/C Core/shell nanocrystals studied with cathodoluminescence spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1260, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
685	RAPET (Reaction under Autogenic Pressure at Elevated Temperatures) Technique Assisted Synthesis of Encapsulated CdE@C [E= S, Se and Te] Nanocrystallites. International Journal of Nanoscience, 2017, 16, 1650032.	0.4	0
686	SYNTHESIS OF CARBON MATERIALS BY THE IMPOSITION OF A HIGH MAGNETIC FIELD. , 2005, , .		0
687	The Sonochemical Fabrication of RNA and DNA Nanospheres. , 2013, , 373-394.		0
688	Zn-doped CuO nanocomposites inhibit tumor growth in vitro and in vivo : Involvement of reactive oxygen species-dependent autophagy and apoptosis cross-linked by NF- κ B pathway. FASEB Journal, 2019, 33, 811.7.	0.2	0
689	Solar intervention in bioenergy. , 2022, , 621-642.		0