

Souad Ammar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3188130/publications.pdf>

Version: 2024-02-01

176
papers

5,372
citations

101543

36
h-index

106344

65
g-index

185
all docs

185
docs citations

185
times ranked

7250
citing authors

#	ARTICLE	IF	CITATIONS
1	The polyol process: a unique method for easy access to metal nanoparticles with tailored sizes, shapes and compositions. <i>Chemical Society Reviews</i> , 2018, 47, 5187-5233.	38.1	390
2	Magnetic properties of ultrafine cobalt ferrite particles synthesized by hydrolysis in a polyol medium. <i>Journal of Materials Chemistry</i> , 2001, 11, 186-192.	6.7	315
3	Magnetic properties of CoFe _{1.9} RE _{0.1} O ₄ nanoparticles (RE=La, Ce, Nd, Sm, Eu, Gd, Tb, Ho) prepared in polyol. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 3242-3250.	2.3	174
4	Layered nickel hydroxide salts: synthesis, characterization and magnetic behaviour in relation to the basal spacing. <i>Journal of Materials Chemistry</i> , 2002, 12, 3238-3244.	6.7	168
5	Acetate- and Thiol-Capped Monodisperse Ruthenium Nanoparticles: XPS, XAS, and HRTEM Studies. <i>Langmuir</i> , 2005, 21, 6788-6796.	3.5	164
6	Catechol derivatives-coated Fe ₃ O ₄ and ⁵⁷ Fe-Fe ₂ O ₃ nanoparticles as potential MRI contrast agents. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 248-254.	9.4	156
7	Evaluation of iron oxide nanoparticle biocompatibility. <i>International Journal of Nanomedicine</i> , 2011, 6, 787.	6.7	143
8	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 261-265.	2.4	141
9	Unravelling Kinetic and Thermodynamic Effects on the Growth of Gold Nanoplates by Liquid Transmission Electron Microscopy. <i>Nano Letters</i> , 2015, 15, 2574-2581.	9.1	133
10	Cobalt-exchanged hydroxyapatite catalysts: Magnetic studies, spectroscopic investigations, performance in 2-butanol and ethane oxidative dehydrogenations. <i>Journal of Catalysis</i> , 2004, 226, 16-24.	6.2	122
11	Magnetic properties of Zn-substituted MnFe ₂ O ₄ nanoparticles synthesized in polyol as potential heating agents for hyperthermia. Evaluation of their toxicity on Endothelial cells. <i>Chemistry of Materials</i> , 2010, 22, 5420-5429.	6.7	104
12	Synthesis, characterization and magnetic properties of disk-shaped particles of a cobalt alkoxide: Co(C ₂ H ₄ O ₂). <i>New Journal of Chemistry</i> , 2005, 29, 355-361.	2.8	98
13	Nickel ferrite nanoparticles: elaboration in polyol medium via hydrolysis, and magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 4357-4372.	1.8	93
14	Metastable solid solutions in the system ZnO-CoO: synthesis by hydrolysis in polyol medium and study of the morphological characteristics. <i>Solid State Sciences</i> , 2001, 3, 31-42.	3.2	89
15	Characterization and magnetic properties of Sm- and Gd-substituted CoFe ₂ O ₄ nanoparticles prepared by forced hydrolysis in polyol. <i>Materials Research Bulletin</i> , 2007, 42, 1888-1896.	5.2	75
16	Iron Oxide and Gold Based Magneto-Plasmonic Nanostructures for Medical Applications: A Review. <i>Nanomaterials</i> , 2018, 8, 149.	4.1	74
17	Magnetic properties of zinc ferrite nanoparticles synthesized by hydrolysis in a polyol medium. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9055-9069.	1.8	73
18	Magnetic nanocrystals coated by molecularly imprinted polymers for the recognition of bisphenol A. <i>Journal of Materials Chemistry</i> , 2012, 22, 1807-1811.	6.7	70

#	ARTICLE	IF	CITATIONS
19	Preparation of Water-Soluble Magnetic Nanocrystals Using Aryl Diazonium Salt Chemistry. <i>Journal of the American Chemical Society</i> , 2011, 133, 1646-1649.	13.7	69
20	Size-dependent magnetic properties of CoFe_2O_4 nanoparticles prepared in polyol. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 506001.	1.8	60
21	Annealing Effect on the Magnetic Properties of Polyol-made Ni \sim Zn Ferrite Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 1350-1366.	6.7	59
22	Zinc substituted ferrite nanoparticles with $\text{Zn}_{0.9}\text{Fe}_{2.1}\text{O}_4$ formula used as heating agents for in vitro hyperthermia assay on glioma cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 416, 315-320.	2.3	59
23	Magnetic Fe_2O_3 Polystyrene/PPy Core/Shell Particles: Bioreactivity and Self-Assembly. <i>Langmuir</i> , 2007, 23, 10940-10949.	3.5	57
24	Influence of the synthesis parameters on the cationic distribution of ZnFe_2O_4 nanoparticles obtained by forced hydrolysis in polyol medium. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 658-662.	3.1	56
25	Mechanosynthesis, crystal structure and magnetic characterization of M-type $\text{SrFe}_{12}\text{O}_{19}$. <i>Ceramics International</i> , 2014, 40, 4033-4038.	4.8	55
26	Polyol synthesis of non-stoichiometric Mn \sim Zn ferrite nanocrystals: structural /microstructural characterization and catalytic application. <i>RSC Advances</i> , 2015, 5, 65010-65022.	3.6	55
27	Photocatalytic activity of TiO_2 nanofibers sensitized with ZnS quantum dots. <i>RSC Advances</i> , 2013, 3, 2572.	3.6	52
28	Synthesis of nickel-zinc ferrite nanoparticles in polyol: morphological, structural and magnetic studies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 504-512.	1.8	45
29	Annealing Effects on $\text{Zn}(\text{Co})\text{O}$: From Para- to Ferromagnetic Behavior. <i>Chemistry of Materials</i> , 2009, 21, 843-855.	6.7	45
30	Physical study of Eu doped MoO_3 thin films. <i>Journal of Alloys and Compounds</i> , 2016, 687, 595-603.	5.5	45
31	Synthesis and Magnetic Properties of Ferrimagnetic CoFe_2O_4 Nanoparticles Embedded in an Antiferromagnetic NiO Matrix. <i>Chemistry of Materials</i> , 2008, 20, 4861-4872.	6.7	43
32	Magnetic Properties of Nanostructured Spinel Ferrites. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-6.	2.1	43
33	Influence of Y doping on structural, vibrational, optical and magnetic properties of BiFeO_3 ceramics prepared by Mechanical Activation. <i>Ceramics International</i> , 2017, 43, 4139-4150.	4.8	42
34	Structure and magnetocaloric properties of $\text{La}_{0.8}\text{Ag}_{0.2}\text{K}_x\text{MnO}_3$ perovskite manganites. <i>Materials Chemistry and Physics</i> , 2012, 132, 839-845.	4.0	41
35	Sonochemical assisted synthesis of $\text{SrFe}_{12}\text{O}_{19}$ nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 470-475.	8.2	41
36	$\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ($0 \leq x \leq 1$) nanocrystalline solid solution prepared by the polyol method: Characterization and magnetic properties. <i>Materials Research Bulletin</i> , 2012, 47, 2590-2598.	5.2	38

#	ARTICLE	IF	CITATIONS
37	TRAIL@NP hybrids for cancer therapy: a review. <i>Nanoscale</i> , 2017, 9, 5755-5768.	5.6	37
38	Highly efficient and selective extraction of uranium from aqueous solution using a magnetic device: succinyl- β -cyclodextrin-APTES@maghemite nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 158-168.	4.3	37
39	Cobalt speciation in cobalt oxide-apatite materials: structure-properties relationship in catalytic oxidative dehydrogenation of ethane and butan-2-ol conversion. <i>Journal of Materials Chemistry</i> , 2006, 16, 2453-2463.	6.7	35
40	Polyol synthesis and magnetic study of Mn ₃ O ₄ nanocrystals of tunable size. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2634-2640.	2.3	35
41	Polyol Synthesis: A Versatile Wet-Chemistry Route for the Design and Production of Functional Inorganic Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1217.	4.1	35
42	Magnetic and magnetocaloric properties of lanthanum manganites with monovalent elements doping at A-site. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 252-257.	2.3	33
43	Structural, magnetic and magnetocaloric study of La _{0.7} xEu _x Sr _{0.3} MnO ₃ (x=0.1, 0.2 and 0.3) manganites. <i>Ceramics International</i> , 2015, 41, 7337-7344.	4.8	33
44	Polyol-synthesized Zn _{0.9} Mn _{0.1} S nanoparticles as potential luminescent and magnetic bimodal imaging probes: synthesis, characterization, and toxicity study. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	32
45	Structure and magnetic properties of Gd _x Y _{1-x} FeO ₃ obtained by mechanochemical synthesis. <i>Journal of Alloys and Compounds</i> , 2014, 586, S90-S94.	5.5	32
46	On the microstructural and magnetic properties of fine-grained CoFe ₂ O ₄ ceramics produced by combining polyol process and spark plasma sintering. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 87-95.	2.3	32
47	Synthesis, Mössbauer Characterization, and Ab Initio Modeling of Iron Oxide Nanoparticles of Medical Interest Functionalized by Dopamine. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14295-14302.	3.1	31
48	Synthesis of Y ₃ Fe ₅ O ₁₂ (YIG) assisted by high-energy ball milling. <i>Ceramics International</i> , 2012, 38, 5257-5263.	4.8	30
49	Layered nickel-cobalt hydroxyacetates and hydroxycarbonates: Chimie douce synthesis and structural features. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 932-937.	4.0	29
50	Crystallinity of nano C-LiFePO ₄ prepared by the polyol process. <i>Journal of Power Sources</i> , 2012, 217, 220-228.	7.8	29
51	Effect of synthesis method on structural, magnetic and magnetocaloric properties of La _{0.7} Sr _{0.2} Ag _{0.1} MnO ₃ manganite. <i>Materials Chemistry and Physics</i> , 2014, 145, 56-59.	4.0	27
52	Structural and optical properties of ZnS/ZnO core/shell nanowires grown on ITO glass. <i>Materials Letters</i> , 2014, 129, 142-145.	2.6	26
53	Photoelectrochemical properties of nanocrystalline ZnS discrete versus continuous coating of ZnO nanorods prepared by electrodeposition. <i>RSC Advances</i> , 2016, 6, 30919-30927.	3.6	25
54	Ferromagnetic resonance behavior of spark plasma sintered Ni-Zn ferrite nanoparticles produced by a chemical route. <i>Journal of Applied Physics</i> , 2011, 109, 07A329.	2.5	24

#	ARTICLE	IF	CITATIONS
55	Transferrin receptor-1 iron-acquisition pathway – Synthesis, kinetics, thermodynamics and rapid cellular internalization of a holotransferrin–maghemite nanoparticle construct. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4254-4264.	2.4	24
56	In situ monitored stretching induced $\hat{\Gamma}$ to $\hat{\Gamma}^2$ allotropic transformation of flexible poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 84, 602-611.	5.4	24
57	The structural and the photoelectrochemical properties of ZnO–ZnS/ITO 1D hetero-junctions prepared by tandem electrodeposition and surface sulfidation: on the material processing limits. <i>RSC Advances</i> , 2018, 8, 11785-11798.	3.6	24
58	Influence of nanoparticle size and concentration on the electroactive phase content of PVDF in PVDF-CoFe ₂ O ₄ -based hybrid films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 252-258.	1.8	23
59	Thermosensitivity profile of malignant glioma U87-MG cells and human endothelial cells following $\hat{\Gamma}^3$ -Fe ₂ O ₃ NPs internalization and magnetic field application. <i>RSC Advances</i> , 2016, 6, 15415-15423.	3.6	23
60	Electrode Surface Confinement of Self-Assembled Enzyme Aggregates Using Magnetic Nanoparticles and Its Application in Bioelectrocatalysis. <i>Analytical Chemistry</i> , 2007, 79, 187-194.	6.5	22
61	Synergetic effect of CdS quantum dots and TiO ₂ nanofibers for photoelectrochemical hydrogen generation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	22
62	Combining Soft Chemistry and Spark Plasma Sintering to Produce Highly Dense and Finely Grained Soft Ferrimagnetic Y ₃ Fe ₅ O ₁₂ (YIG) Ceramics. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3094-3099.	3.8	22
63	Preparation of nanostructured La _{0.7} Ca _{0.3} xBaxMnO ₃ ceramics by a combined sol–gel and spark plasma sintering route and resulting magnetocaloric properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 215-219.	2.3	22
64	Magnetic and magnetocaloric properties of La _{0.85} (Na _{1-x} K _x) _{0.15} MnO ₃ ceramics produced by reactive spark plasma sintering. <i>Journal of Applied Physics</i> , 2014, 115, 17A917.	2.5	21
65	Elaboration and Rheological Investigation of Magnetic Sensitive Nanocomposite Biopolymer Networks. <i>Macromolecules</i> , 2014, 47, 3136-3144.	4.8	21
66	Synthesis of highly soluble polymer-coated magnetic nanoparticles using a combination of diazonium salt chemistry and the iniferter method. <i>RSC Advances</i> , 2012, 2, 826-830.	3.6	20
67	Synthesis of core/shell ZnO/ZnSe nanowires using novel low cost two-steps electrochemical deposition technique. <i>Journal of Alloys and Compounds</i> , 2015, 647, 660-664.	5.5	20
68	Magnetic properties of ferrite-titanate nanostructured composites synthesized by the polyol method and consolidated by spark plasma sintering. <i>Journal of Applied Physics</i> , 2013, 113, 17B519.	2.5	19
69	Correlation between Titanium foil substrate purity and TiO ₂ NTs; physical and electrochemical properties for enhanced photoelectrochemical applications. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6230-6239.	7.1	19
70	On the exact crystal structure of exchange-biased Fe ₃ O ₄ –CoO nanoaggregates produced by seed-mediated growth in polyol. <i>CrystEngComm</i> , 2016, 18, 3799-3807.	2.6	19
71	Effect of manganese concentration on physical properties of ZnS:Mn thin films prepared by chemical bath deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1463-1471.	2.2	19
72	Exchange-Biased Fe ₃ O ₄ /CoO Granular Composites of Different Morphologies Prepared by Seed-Mediated Growth in Polyol: From Core-Shell to Multicore Embedded Structures. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800104.	2.3	19

#	ARTICLE	IF	CITATIONS
73	Powder and film of nickel and iron-layered double hydroxide: Elaboration in polyol medium and characterization. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1052-1055.	4.0	18
74	Nanotoxicological study of polyol-made cobalt-zinc ferrite nanoparticles in rabbit. <i>Environmental Toxicology and Pharmacology</i> , 2016, 45, 321-327.	4.0	18
75	Mechanism and microstructural evolution of polyol mediated synthesis of nanostructured M-type SrFe ₂ O ₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 407, 188-194.	2.3	18
76	Maghemite nanoparticles coated with human serum albumin: combining targeting by the iron-acquisition pathway and potential in photothermal therapies. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3154-3162.	5.8	18
77	A comparative study of La _{0.65} Ca _{0.2} (Na _{0.5} K _{0.5}) _{0.15} MnO ₃ compound synthesized by solid-state and sol-gel process. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2597-2604.	5.5	18
78	Synthesis and characterization of zinc-tin-mixed oxides thin films. <i>Superlattices and Microstructures</i> , 2018, 123, 129-137.	3.1	18
79	Study of the stability under in vitro physiological conditions of surface silanized equimolar HfNbTaTiZr high-entropy alloy: A first step toward bio-implant applications. <i>Surface and Coatings Technology</i> , 2020, 385, 125374.	4.8	18
80	Nanocrystalline Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ films prepared by spray deposition from polyol-mediated sol: Microstructural and magnetic characterization. <i>Thin Solid Films</i> , 2010, 518, 2592-2598.	1.8	17
81	Grafting of diazonium salts on oxides surface: formation of aryl-O bonds on iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	17
82	Severe reduction of Ni-Zn ferrites during consolidation by Spark Plasma Sintering (SPS). <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 311-314.	2.3	17
83	Star-Shaped Fe ₃ -xO ₄ -Au Core-Shell Nanoparticles: From Synthesis to SERS Application. <i>Nanomaterials</i> , 2020, 10, 294.	4.1	17
84	Effect of sodium substitution on the physical properties of sol-gel made La _{0.65} Ca _{0.35} MnO ₃ ceramics. <i>Materials Chemistry and Physics</i> , 2014, 148, 751-758.	4.0	16
85	Ultrafine grained high density manganese zinc ferrite produced using polyol process assisted by Spark Plasma Sintering. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 387, 90-95.	2.3	16
86	Transferrin-bearing maghemite nano-constructs for biomedical applications. <i>Journal of Applied Physics</i> , 2015, 117, 17A336.	2.5	16
87	Photoelectrochemical properties of ZnS- and CdS-TiO ₂ nanostructured photocatalysts: Aqueous sulfidation as a smart route to improve catalyst stability. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 489-501.	3.9	16
88	Highly Efficient Electron Transfer in a Carbon Dot-Polyoxometalate Nanohybrid. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4379-4384.	4.6	16
89	Water Vapor Photoelectrolysis in a Solid-State Photoelectrochemical Cell with TiO ₂ Nanotubes Loaded with CdS and CdSe Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46875-46885.	8.0	16
90	Spray deposition of nanocrystalline Ni _{1-x} Zn _x Fe ₂ O ₄ (x=1/2, 0.6) films from polyol-mediated sol: Microstructure and magnetic properties. <i>Journal of Applied Physics</i> , 2008, 103, 07E744.	2.5	15

#	ARTICLE	IF	CITATIONS
91	Structural and magnetic properties of mixed Co ²⁺ -Ln (Ln = Nd, Sm, Eu, Gd and Ho) diethyleneglycolate complexes. Dalton Transactions, 2015, 44, 16013-16023.	3.3	15
92	Influence of magnetic field on the critical behavior of La _{0.7} Ca _{0.2} Ba _{0.1} MnO ₃ . Journal of Alloys and Compounds, 2015, 627, 211-217.	5.5	15
93	Giant Exchange-Bias in Polyol-Made CoFe ₂ O ₄ -CoO Core-Shell Like Nanoparticles. Particle and Particle Systems Characterization, 2018, 35, 1800290.	2.3	15
94	Copper/Nickel-Decorated Olive Pit Biochar: One Pot Solid State Synthesis for Environmental Remediation. Applied Sciences (Switzerland), 2021, 11, 8513.	2.5	15
95	Ferromagnetic resonance in Ni-Zn ferrite nanoparticles in different aggregation states. Journal of Magnetism and Magnetic Materials, 2012, 324, 3398-3401.	2.3	14
96	Exchange-biased oxide-based core-shell nanoparticles produced by seed-mediated growth in polyol. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	14
97	Lamellar nickel hydroxy-halides: anionic exchange synthesis, structural characterization and magnetic behavior. Journal of Materials Chemistry C, 2014, 2, 4449-4460.	5.5	14
98	An impedance spectroscopy study of magnetodielectric coupling in BaTiO ₃ -CoFe ₂ O ₄ nanostructured multiferroics. AIP Advances, 2017, 7, 055813.	1.3	14
99	TRAIL acts synergistically with iron oxide nanocluster-mediated magneto- and photothermia. Theranostics, 2019, 9, 5924-5936.	10.0	14
100	Tailoring the magnetic properties of cobalt ferrite nanoparticles using the polyol process. Beilstein Journal of Nanotechnology, 2019, 10, 1166-1176.	2.8	14
101	Design and Synthesis of Luminescent Lanthanide-Based Bimodal Nanoprobes for Dual Magnetic Resonance (MR) and Optical Imaging. Nanomaterials, 2021, 11, 354.	4.1	14
102	Magneto-transport properties of La _{0.75} Ca _{0.15} Sr _{0.1} MnO ₃ with YBa ₂ Cu ₃ O _{7-δ} addition. Journal of Magnetism and Magnetic Materials, 2016, 414, 97-104.	2.3	13
103	Importance of the synthesis and sintering methods on the properties of manganite ceramics: The example of La _{0.7} Ca _{0.3} MnO ₃ . Journal of Alloys and Compounds, 2018, 759, 52-59.	5.5	13
104	Deposition of SnS thin films by chemical bath deposition method: Effect of surfactants. European Physical Journal Plus, 2019, 134, 1.	2.6	13
105	Low Field Microwave Absorption in Ni-Zn Ferrite Nanoparticles in Different Aggregation States. Nanoscience and Nanotechnology Letters, 2011, 3, 598-602.	0.4	12
106	Effect of copper concentration on the physical properties of ZnS:Cu alloys prepared by chemical bath deposition. Journal of Materials Science: Materials in Electronics, 2016, 27, 10684-10695.	2.2	12
107	Structural, morphological and optical properties of TiO ₂ :Mn thin films prepared by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 4622-4630.	2.2	12
108	Functionalization of Iron Oxide Nanoparticles With HSA Protein for Thermal Therapy. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	12

#	ARTICLE	IF	CITATIONS
109	Citric-Acid-Assisted Preparation of Biochar Loaded with Copper/Nickel Bimetallic Nanoparticles for Dye Degradation. <i>Colloids and Interfaces</i> , 2022, 6, 18.	2.1	12
110	Magnetocaloric properties of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ produced by reactive spark plasma sintering and by conventional ceramic route. <i>Materials Research Express</i> , 2014, 1, 046105.	1.6	11
111	Magnetic phase transitions in ferrite nanoparticles characterized by electron spin resonance. <i>Journal of Applied Physics</i> , 2015, 117, 17A503.	2.5	11
112	Visible-light photocatalytic performances of TiO_2 nanobelts decorated with iron oxide nanocrystals. <i>RSC Advances</i> , 2016, 6, 114843-114851.	3.6	11
113	Surface modification of Fe_2O_3 nanoparticles by grafting from poly-(hydroxyethylmethacrylate) and poly-(methacrylic acid): Qualitative and quantitative analysis of the polymeric coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 222-231.	4.7	11
114	Rapid solid state synthesis by spark plasma sintering and magnetic properties of LaMnO_3 perovskite manganite. <i>Materials Letters</i> , 2012, 80, 195-198.	2.6	10
115	Photoluminescent properties of new quantum dot nanoparticles/carbon nanotubes hybrid structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 138-144.	4.7	10
116	Effect of the Support Nanostructure (Nanofibers and Nanotubes) on the Photoelectrochemical Performance of TiO_2 - CdO @ CdS Semiconducting Architectures. <i>Journal of the Electrochemical Society</i> , 2017, 164, H286-H292.	2.9	10
117	Hydrothermal synthesis, characterization and magnetic properties of $(\text{N}_4\text{C}_6\text{H}_{21})\cdot(\text{Co}(\text{H}_2\text{PO}_4)(\text{HPO}_4)_2)$. <i>Materials Research Bulletin</i> , 2005, 40, 1270-1278.	5.2	9
118	Size tuned polyol-made $\text{Zn}_{0.9}\text{M}_{0.1}\text{Fe}_2\text{O}_4$ ($\text{M} = \text{Mn, Co}$) control to toxicity survey. <i>Materials Research Express</i> , 2014, 1, 045047.	1.6	9
119	Photo-anodes based on TiO_2 and carbon dots for photo-electrocatalytical measurements. <i>Materials Letters</i> , 2019, 250, 119-122.	2.6	9
120	On the first evidence of exchange-bias feature in magnetically contrasted consolidates made from CoFe_2O_4 - CoO core-shell nanoparticles. <i>Scientific Reports</i> , 2019, 9, 19468.	3.3	9
121	Experimental and theoretical evidence for oriented aggregate crystal growth of CoO in a polyol. <i>CrystEngComm</i> , 2021, 23, 1756-1764.	2.6	9
122	Low Field Microwave Absorption in Nanostructured Ferrite Ceramics Consolidated by Spark Plasma Sintering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2389-2393.	1.8	8
123	Rapid synthesis of $\text{La}_{0.85}\text{Na}_{0.15}\text{MnO}_3$ by spark plasma sintering: Magnetic behavior and magnetocaloric properties. <i>Materials Chemistry and Physics</i> , 2013, 139, 629-633.	4.0	8
124	TiO_2 nanofibers supported on Ti sheets prepared by hydrothermal corrosion: effect of the microstructure on their photochemical and photoelectrochemical properties. <i>RSC Advances</i> , 2015, 5, 95038-95046.	3.6	8
125	Effect of Calcium Deficiency on the Structural, Magnetic and Magnetocaloric Properties in $\text{La}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$ Manganites Oxides. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2409-2415.	1.8	8
126	A tandem polyol process and ATRP used to design new processable hybrid exchange-biased $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ @ CoO @ PMMA nanoparticles. <i>RSC Advances</i> , 2016, 6, 49973-49979.	3.6	8

#	ARTICLE	IF	CITATIONS
127	An easy-to achieve approach for the fabrication of CdS QDs sensitized TiO ₂ nanotubes and their enhanced photoelectrochemical performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 337-344.	3.9	8
128	The Verwey transition in nanostructured magnetite produced by a combination of chimie douce and spark plasma sintering. <i>Journal of Applied Physics</i> , 2014, 115, 17E117.	2.5	7
129	Maghemite nanoparticles bearing di(amidoxime) groups for the extraction of uranium from wastewaters. <i>AIP Advances</i> , 2017, 7, .	1.3	7
130	Magnetocaloric nanostructured La _{0.7} Ca _{0.3} xBaxMnO ₃ (x=0.3) ceramics produced by combining polyol process and Spark Plasma Sintering. <i>Journal of Alloys and Compounds</i> , 2017, 691, 474-481.	5.5	7
131	Effect of ZnS, iZnO, dZnO and Cu(In,Ga)Se ₂ thickness on the performance of simulated Mo/Cu(In,Ga)Se ₂ /ZnS/iZnO/dZnO solar cell. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	7
132	Coupling tumor necrosis factor- α -related apoptosis-inducing ligand to iron oxide nanoparticles increases its apoptotic activity on HCT116 and HepG2 malignant cells: effect of magnetic core size. <i>Journal of Interdisciplinary Nanomedicine</i> , 2019, 4, 34-50.	3.6	7
133	Assembly of gold nanoparticles using turnip yellow mosaic virus as an in-solution SERS sensor. <i>RSC Advances</i> , 2019, 9, 32296-32307.	3.6	7
134	Polyol-Made Luminescent and Superparamagnetic Y^{2+} -NaY _{0.8} Eu _{0.2} F ₄ @ Fe^{3+} -Fe ₂ O ₃ Core-Satellites Nanoparticles for Dual Magnetic Resonance and Optical Imaging. <i>Nanomaterials</i> , 2020, 10, 393.	4.1	7
135	Manganese oxide nanoparticles prepared by olive leaf extract-mediated wet chemistry and their supercapacitor properties. <i>Solid State Sciences</i> , 2021, 113, 106551.	3.2	7
136	The compound Tl ₄ Cu ₄ (P ₂ O ₇) ₃ , a new three-dimensional structure with interconnected tunnels. <i>Solid State Sciences</i> , 2000, 2, 587-594.	3.2	6
137	Effect of Air Annealing on the Structural and Magnetic Properties of LaMnO ₃ Perovskite Produced by Reactive Spark Plasma Sintering Route. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1467-1471.	1.8	6
138	Nanostructured tetragonal barium titanate produced by the polyol and spark plasma sintering (SPS) route. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	6
139	Low-Temperature Short-Time SPS Processes to Produce Fine-Grained High-Coercivity Barium Hexaferrite Ceramics from Polyol Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 347-351.	1.8	6
140	New Iron Oxide Nanoparticles Catechol-Grafted with Bis(amidoxime)s for Uranium(VI) Depletion of Aqueous Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4911-4919.	0.9	6
141	The first one-pot synthesis of undoped and Eu doped Y^{2+} -NaYF ₄ nanocrystals and their evaluation as efficient dyes for nanomedicine. <i>Materials Science and Engineering C</i> , 2019, 94, 26-34.	7.3	6
142	Rheological investigation of magnetic sensitive biopolymer composites: effect of the ligand grafting of magnetic nanoparticles. <i>Rheologica Acta</i> , 2020, 59, 165-176.	2.4	6
143	Preparation of Fe ₃ O ₄ -Ag Nanocomposites with Silver Petals for SERS Application. <i>Nanomaterials</i> , 2021, 11, 1288.	4.1	6
144	Preparation of nanocomposite materials from mercaptoacetate-modified platinum nanoparticles and a layered nickel hydroxyacetate salt. <i>Materials Research Bulletin</i> , 2009, 44, 1692-1699.	5.2	5

#	ARTICLE	IF	CITATIONS
145	Effect of monovalent doping on the physical properties of La _{0.7} Sr _{0.3} MnO ₃ compound synthesized using sol-gel technique. IOP Conference Series: Materials Science and Engineering, 2012, 28, 012054.	0.6	5
146	The effects of spark plasma sintering consolidation on the ferromagnetic resonance spectra (FMR) of Ni ²⁺ -Zn ferrites. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1062-1066.	1.8	5
147	Granular Fe ₃ O ₄ -CoO hetero-nanostructures produced by in situ seeded mediated growth in polyol: magnetic properties and chemical stability. Materials Research Express, 2014, 1, 025035.	1.6	5
148	Formation and Study of the Nanostructured CuAl _{0.5} Ga _{0.5} Te ₂ Synthesized by Mechanical Alloying Processing. Jom, 2014, 66, 985-991.	1.9	5
149	Effect of samarium doping on the physical properties of chemically sprayed titanium dioxide thin films. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	5
150	Soft chemistry synthesis route toward Bi ₂ Te ₃ hierarchical hollow spheres. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	5
151	Annealing Effect on the Structural, Magnetic and Magnetocaloric Properties of La _{0.65} Ca _{0.2} K _{0.15} MnO ₃ Synthesized by SolGel Method. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1379-1387.	1.8	5
152	Enhancement of the photoelectrochemical properties of TiO ₂ nanofibers supported on Ti sheets by polyol-made CdSe quantum-dots impregnation. Materials Letters, 2020, 273, 127934.	2.6	5
153	Niobia-Supported Palladium-Manganese Materials: Synthesis and Structural Investigation. European Journal of Inorganic Chemistry, 2008, 2008, 1623-1631.	2.0	4
154	Giant Barkhausen Jumps in Exchange Biased Bulk Nanocomposites Sintered from Core-Shell $\text{Fe}_3\text{O}_4\text{-CoO}$ Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 3356-3359.	2.1	4
155	Functionalized magnetic nanoparticles for the decontamination of water polluted with cesium. AIP Advances, 2016, 6, .	1.3	4
156	Evaluation of polyol-made Gd ³⁺ -substituted Co _{0.6} Zn _{0.4} Fe ₂ O ₄ nanoparticles as high magnetization MRI negative contrast agents. Journal of Interdisciplinary Nanomedicine, 2019, 4, 4-23.	3.6	4
157	Polyol Process Coupled to Cold Plasma as a New and Efficient Nanohydride Processing Method: Nano-Ni ₂ H as a Case Study. Nanomaterials, 2020, 10, 136.	4.1	4
158	Comparative study of the structural and magnetic properties of two cobalt ferrite nanocrystals produced with different iron precursors. Materials Letters, 2013, 113, 198-201.	2.6	3
159	Magnetoelectric Coupling in BaTiO ₃ -CoFe ₂ O ₄ Nanocomposites Studied by Impedance Spectroscopy Under Magnetic Field. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
160	On the limits of Reactive-Spark-Plasma Sintering to prepare magnetically enhanced nanostructured ceramics: the case of the CoFe ₂ O ₄ -NiO system. Scientific Reports, 2019, 9, 14119.	3.3	3
161	Grafting TRAIL through Either Amino or Carboxylic Groups onto Maghemite Nanoparticles: Influence on Pro-Apoptotic Efficiency. Nanomaterials, 2021, 11, 502.	4.1	3
162	Dawson-type polyoxometalates photosensitized with carbon dots for photocatalytic reduction of silver ions. Materials Research Bulletin, 2022, 149, 111721.	5.2	3

#	ARTICLE	IF	CITATIONS
163	Growth of carbon nanotubes through selective deposition of nanoparticles. Journal of Materials Chemistry, 2010, 20, 7197.	6.7	2
164	Polyol-mediated syntheses of crystalline nanosized manganese oxides. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	2
165	A combined sol-gel and spark plasma sintering route to produce highly dense and fine-grained La _{0.65} Ca _{0.20} Na _{0.15} MnO ₃ ceramics for magnetocaloric applications. Materials Research Express, 2014, 1, 015703.	1.6	2
166	Polyol-Made Spinel Ferrite Nanoparticles' Local Structure and Operating Conditions: NiFe ₂ O ₄ as a Case Study. Frontiers in Materials, 2021, 8, .	2.4	2
167	Design and Functionalization of Magnetic Core-Shell Oxide Nanoparticles Exhibiting Exchange Bias Features. Materials Research Society Symposia Proceedings, 2011, 1359, 175.	0.1	1
168	Structural and Magneto-transport Properties of (La _{0.75} Ca _{0.15} Sr _{0.1} MnO ₃) _{0.8} (YBa ₂ Cu ₃ O _{7-δ}) _{0.2} Composite. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2583-2588.	1.8	1
169	Methods for preparing polymer-decorated single exchange-biased magnetic nanoparticles for application in flexible polymer-based films. Beilstein Journal of Nanotechnology, 2017, 8, 408-417.	2.8	1
170	Ab initio structure determination of [Eu ₅ (C ₂ H ₄ O ₂) ₆ (CH ₃ CO) ₂] ₃ by X-ray powder diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 592-597.	1.1	1
171	Magnetic Traits in Co@CoFe ₂ O ₄ shell Like Nanoparticles. ChemNanoMat, 2019, 5, 514-524.	2.8	1
172	Exchange-bias features in nanoceramics prepared by spark plasma sintering of exchange-biased nanopowders. Journal of Materials Chemistry C, 2020, 8, 5941-5949.	5.5	1
173	Synthesis of Magnetic Wires from Polyol-Derived Fe-Glycolate Wires. Nanomaterials, 2020, 10, 318.	4.1	1
174	Photo-Activated Phosphorescence of Ultrafine ZnS:Mn Quantum Dots: On the Lattice Strain Contribution. Journal of Physical Chemistry C, 2022, 126, 1531-1541.	3.1	1
175	Electron transfer between carbon dots and tetranuclear Dawson-derived sandwich polyanions. Physical Chemistry Chemical Physics, 2022, 24, 17654-17664.	2.8	1
176	Synthesis of cobalt ferrite in one-pot-polyol method, characterization, and application to methylparaben photodegradation in the presence of peroxydisulfate. Materials Today Chemistry, 2022, 26, 101029.	3.5	0