Michael Giersig

List of Publications by Year
in descending order

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228	21,757	9254	9090
papers	citations	74 h-index	144 g-index

229	229	229	22595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spontaneous Organization of Single CdTe Nanoparticles into Luminescent Nanowires. Science, 2002, 297, 237-240.	6.0	1,778
2	Synthesis of Nanosized Goldâ˜Silica Coreâ˜Shell Particles. Langmuir, 1996, 12, 4329-4335.	1.6	1,766
3	Preparation of ordered colloid monolayers by electrophoretic deposition. Langmuir, 1993, 9, 3408-3413.	1.6	616
4	Magnetic Nanocomposite Particles and Hollow Spheres Constructed by a Sequential Layering Approach. Chemistry of Materials, 2001, 13, 109-116.	3.2	579
5	Fermi Level Equilibration in Quantum Dotâ˜Metal Nanojunctions. Journal of Physical Chemistry B, 2001, 105, 8810-8815.	1.2	517
6	Electrostatic Self-Assembly of Silica Nanoparticleâ˜Polyelectrolyte Multilayers on Polystyrene Latex Particles. Journal of the American Chemical Society, 1998, 120, 8523-8524.	6.6	488
7	Fabrication and Biocompatibility of Carbon Nanotube-Based 3D Networks as Scaffolds for Cell Seeding and Growth. Nano Letters, 2004, 4, 2233-2236.	4.5	458
8	Silica encapsulation of quantum dots and metal clusters. Journal of Materials Chemistry, 2000, 10, 1259-1270.	6.7	409
9	â€œRaisin Bunâ€•Type Composite Spheres of Silica and Semiconductor Nanocrystals. Chemistry of Materials, 2000, 12, 2676-2685.	3.2	406
10	Shadow Nanosphere Lithography:Â Simulation and Experiment. Nano Letters, 2004, 4, 1359-1363.	4.5	356
11	Laser-Induced Inter-Diffusion in AuAg Coreâ˜Shell Nanoparticles. Journal of Physical Chemistry B, 2000, 104, 11708-11718.	1.2	324
12	One-Pot Synthesis of Ag@TiO2Coreâ˜Shell Nanoparticles and Their Layer-by-Layer Assembly. Langmuir, 2000, 16, 2731-2735.	1.6	323
13	Alignment of Carbon Nanotubes under Low Magnetic Fields through Attachment of Magnetic Nanoparticles. Journal of Physical Chemistry B, 2005, 109, 19060-19063.	1.2	315
14	Stabilization of CdS semiconductor nanoparticles against photodegradation by a silica coating procedure. Chemical Physics Letters, 1998, 286, 497-501.	1.2	307
15	Fabrication of Nanoscale Rings, Dots, and Rods by Combining Shadow Nanosphere Lithography and Annealed Polystyrene Nanosphere Masks. Small, 2005, 1, 439-444.	5.2	297
16	Large-scale, 2D arrays of magnetic nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 219, 1-6.	2.3	292
17	Direct observation of chemical reactions in silica-coated gold and silver nanoparticles. Advanced Materials, 1997, 9, 570-575.	11.1	291
18	Nanorainbows:Â Graded Semiconductor Films from Quantum Dots. Journal of the American Chemical Society, 2001, 123, 7738-7739.	6.6	290

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19	Photonic Crystals Based on Periodic Arrays of Aligned Carbon Nanotubes. Nano Letters, 2003, 3, 13-18.	4.5	285
20	Uniform Selfâ€Forming Metallic Network as a Highâ€Performance Transparent Conductive Electrode. Advanced Materials, 2014, 26, 873-877.	11.1	280
21	Electrochemistry of multilayer colloids: preparation and absorption spectrum of gold-coated silver particles. The Journal of Physical Chemistry, 1993, 97, 7061-7064.	2.9	276
22	Magnetic Colloidosomes Derived from Nanoparticle Interfacial Self-Assembly. Nano Letters, 2005, 5, 949-952.	4.5	264
23	Mechanism of Strong Luminescence Photoactivation of Citrate-Stabilized Water-Soluble Nanoparticles with CdSe Cores. Journal of Physical Chemistry B, 2004, 108, 15461-15469.	1.2	263
24	From anisotropic photo-fluidity towards nanomanipulation in the optical near-field. Nature Materials, 2005, 4, 699-703.	13.3	258
25	Layer-by-Layer Assembled Composites from Multiwall Carbon Nanotubes with Different Morphologies. Nano Letters, 2004, 4, 1889-1895.	4.5	255
26	Spectroelectrochemistry of Colloidal Silver. Langmuir, 1997, 13, 1773-1782.	1.6	251
27	Aligning Au Nanorods by Using Carbon Nanotubes as Templates. Angewandte Chemie - International Edition, 2005, 44, 4375-4378.	7.2	231
28	Novel low-temperature synthesis of semiconducting transition metal chalcogenide electrocatalyst for multielectron charge transfer: molecular oxygen reduction. Electrochimica Acta, 1994, 39, 1647-1653.	2.6	199
29	Layer-By-Layer Assembly of Core-Shell Magnetite Nanoparticles: Effect of Silica Coating on Interparticle Interactions and Magnetic Properties. Advanced Materials, 1999, 11, 1006-1010.	11.1	197
30	Nanomedicine for respiratory diseases. European Journal of Pharmacology, 2006, 533, 341-350.	1.7	196
31	Optical and Magnetic Properties of Hexagonal Arrays of Subwavelength Holes in Optically Thin Cobalt Films. Nano Letters, 2009, 9, 1-6.	4.5	195
32	Size Effects in ZnO: The Cluster to Quantum Dot Transition. Australian Journal of Chemistry, 2003, 56, 1051.	0.5	193
33	Evidence of an aggregative mechanism during the formation of silver nanowires in N,N-dimethylformamide. Journal of Materials Chemistry, 2004, 14, 607-610.	6.7	178
34	Control of Packing Order of Self-Assembled Monolayers of Magnetite Nanoparticles with and without SiO2Coating by Microwave Irradiation. Langmuir, 1998, 14, 6430-6435.	1.6	172
35	Chemical bath deposition of indium sulphide thin films: preparation and characterization. Thin Solid Films, 1999, 340, 18-23.	0.8	170
36	Synthesis of Flexible, Ultrathin Gold Nanowires in Organic Media. Langmuir, 2008, 24, 9855-9860.	1.6	170

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37	Periodic Largeâ€Area Metallic Splitâ€Ring Resonator Metamaterial Fabrication Based on Shadow Nanosphere Lithography. Small, 2009, 5, 400-406.	5.2	157
38	Synthesis and Structure of Colloidal Bimetallic Nanocrystals:Â The Non-Alloying System Ag/Co. Nano Letters, 2002, 2, 621-624.	4.5	154
39	Biomaterials by Design: Layer-By-Layer Assembled Ion-Selective and Biocompatible Films of TiO2 Nanoshells for Neurochemical Monitoring. Advanced Functional Materials, 2002, 12, 255.	7.8	151
40	Drastic Surface Plasmon Mode Shifts in Gold Nanorods Due to Electron Charging. Plasmonics, 2006, 1, 61-66.	1.8	150
41	Homogeneous silica coating of vitreophobic colloids. Chemical Communications, 1996, , 731-732.	2.2	146
42	Growth of large periodic arrays of carbon nanotubes. Applied Physics Letters, 2003, 82, 460-462.	1.5	145
43	Layer-by-Layer Assembly of Multiwall Carbon Nanotubes on Spherical Colloids. Chemistry of Materials, 2005, 17, 3268-3272.	3.2	140
44	Reduction of Pt(II) by H2:Â Effects of Citrate and NaOH and Reaction Mechanism. Journal of Physical Chemistry B, 2000, 104, 6767-6772.	1.2	138
45	Nanoparticle-Based Diagnosis and Therapy. Current Drug Targets, 2006, 7, 643-648.	1.0	137
46	Surface chemistry of colloidal gold: deposition of lead and accompanying optical effects. The Journal of Physical Chemistry, 1992, 96, 10419-10424.	2.9	131
47	Fabrication of a Novel Type of Metallized Colloids and Hollow Capsules. Langmuir, 2002, 18, 6687-6693.	1.6	131
48	Quantum Dot Modified Multiwall Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 12901-12904.	1.2	130
49	Process and characterisation of chemical bath deposited manganese sulphide (MnS) thin films. Thin Solid Films, 1998, 330, 70-75.	0.8	129
50	Enhanced Introduction of Gold Nanoparticles into Vital Acidothiobacillus ferrooxidans by Carbon Nanotube-based Microwave Electroporation. Nano Letters, 2004, 4, 985-988.	4.5	115
51	Review of the Synthetic Chemistry Involved in the Production of Core/Shell Semiconductor Nanocrystals. Australian Journal of Chemistry, 2007, 60, 457.	0.5	114
52	Synthesis of Coreâ˜Shell PtCo Nanocrystalsâ€. Journal of Physical Chemistry B, 2003, 107, 7351-7354.	1.2	108
53	Magnetic and optical tunable microspheres with a magnetite/gold nanoparticle shell. Journal of Materials Chemistry, 2005, 15, 2095.	6.7	106
54	Photoluminescence Quenching Control in Quantum Dotâ€“Carbon Nanotube Composite Colloids Using a Silica-Shell Spacer. Advanced Materials, 2006, 18, 415-420.	11.1	106

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55	Nanomechanical Properties of Silica-Coated Multiwall Carbon NanotubesPoly(methyl methacrylate) Composites. Langmuir, 2005, 21, 3146-3152.	1.6	101
56	A Simple Colloidal Route to Nanocrystalline ZnO/CuInS2 Bilayers. Advanced Materials, 1999, 11, 643-646.	11.1	99
57	Porous â€œCoral-likeâ€•TiO2Structures Produced by Templating Polymer Gels. Langmuir, 1998, 14, 6333-6336.	1.6	98
58	Photoelectrochemical Energy Conversion Obtained with Ultrathin Organoâ€Metallicâ€Chemicalâ€Vaporâ€Deposition Layer of FeS2 (Pyrite) on TiO2. Journal of the Electrochemical Society, 1992, 139, 2514-2518.	1.3	97
59	Stepwise Directing of Nanocrystals to Self-Assemble at Water/Oil Interfaces. Angewandte Chemie - International Edition, 2006, 45, 7963-7966.	7.2	96
60	Physics of transparent conductors. Advances in Physics, 2016, 65, 553-617.	35.9	96
61	In2S3Nanocolloids with Excitonic Emission:Â In2S3vs CdS Comparative Study of Optical and Structural Characteristics. Journal of Physical Chemistry B, 2001, 105, 7490-7498.	1.2	95
62	Formation of uniform size anatase nanocrystals from bis(ammonium lactato)titanium dihydroxide by thermohydrolysis. Journal of Materials Chemistry, 1999, 9, 3051-3056.	6.7	94
63	Discrete excitonic transitions in quantum-sized CdS particles. Chemical Physics Letters, 1990, 172, 201-204.	1.2	93
64	Au@MnO₂ Coreâ€“Shell Nanomesh Electrodes for Transparent Flexible Supercapacitors. Small, 2014, 10, 4136-4141.	5.2	93
65	Steric exclusion chromatography of nanometer-sized gold particles. Langmuir, 1993, 9, 2297-2300.	1.6	92
66	Radiolytic Formation of Colloidal Tin and Tin-Gold Particles in Aqueous Solution. The Journal of Physical Chemistry, 1994, 98, 6931-6935.	2.9	92
67	Spontaneous Transformation of CdTe Nanoparticles into Angled Te Nanocrystals:Â From Particles and Rods to Checkmarks, X-Marks, and Other Unusual Shapes. Journal of the American Chemical Society, 2006, 128, 6730-6736.	6.6	89
68	Modification of TiO2Network Structures Using a Polymer Gel Coating Technique. Chemistry of Materials, 2001, 13, 1114-1123.	3.2	86
69	Detonations of Gallium Azides:Â A Simple Route to Hexagonal GaN Nanocrystals. Journal of the American Chemical Society, 1998, 120, 3512-3513.	6.6	85
70	Formation of Super Arrays of Periodic Nanoparticles and Aligned ZnO Nanorods â^' Simulation and Experiments. Nano Letters, 2004, 4, 2037-2040.	4.5	85
71	Multi-walled carbon nanotubes for plasmid delivery into Escherichia coli cells. Lab on A Chip, 2005, 5, 536.	3.1	84
72	Inorganic Particle Synthesis in Confined Micron-Sized Polyelectrolyte Capsules. Langmuir, 2002, 18, 8204-8208.	1.6	83

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73	The preparation of ordered colloidal magnetic particles by magnetophoretic deposition. Journal Physics D: Applied Physics, 1999, 32, L111-L113.	1.3	79
74	AuAg bimetallic nanoparticles: formation, silica-coating and selective etching. Faraday Discussions, 2004, 125, 133-144.	1.6	79
75	Nanometer-sized colloidal germanium particles: Wet-chemical synthesis, laser-induced crystallization and particle growth. Advanced Materials, 1993, 5, 634-636.	11.1	75
76	Optical Transmission through Hexagonal Arrays of Subwavelength Holes in Thin Metal Films. Nano Letters, 2007, 7, 2926-2930.	4.5	75
77	Colloidal Synthesis and Electroluminescence Properties of Nanoporous MnIIZnS Films. Journal of Physical Chemistry B, 1999, 103, 7839-7845.	1.2	71
78	New method for the determination of the particle magnetic moment distribution in a ferrofluid. Journal Physics D: Applied Physics, 2000, 33, 331-337.	1.3	71
79	Optical and Chemical Observations on Goldâ^'Mercury Nanoparticles in Aqueous Solution. Journal of Physical Chemistry B, 2000, 104, 5056-5060.	1.2	65
80	Magneticâ^'Noble Metal Nanocomposites with Morphology-Dependent Optical Response. Chemistry of Materials, 2007, 19, 4415-4422.	3.2	65
81	Understanding Anisotropic Plasma Etching of Two-Dimensional Polystyrene Opals for Advanced Materials Fabrication. Langmuir, 2014, 30, 12354-12361.	1.6	62
82	Solâ^'Gel Synthesis and Spectroscopic Properties of Thick Nanocrystalline CdSe Films. Journal of Physical Chemistry B, 1997, 101, 8898-8906.	1.2	61
83	CuAu-type ordering in epitaxial CuInS2 films. Applied Physics Letters, 1998, 73, 785-787.	1.5	60
84	XRD, SEM, AFM, HRTEM, EDAX and RBS studies of chemically deposited Sb2S3 and Sb2Se3 thin films. Applied Surface Science, 2002, 193, 1-10.	3.1	60
85	Surface plasmons and magneto-optic activity in hexagonal Ni anti-dot arrays. Optics Express, 2011, 19, 23867.	1.7	59
86	Some structural studies on successive ionic layer adsorption and reaction (SILAR)-deposited CdS thin films. Applied Surface Science, 2001, 181, 277-282.	3.1	58
87	Highly Ordered MWNT-Based Matrixes:â€‰ Topography at the Nanoscale Conceived for Tissue Engineering. Langmuir, 2006, 22, 5427-5434.	1.6	58
88	Magnetic Nanoparticle Superstructures. European Journal of Inorganic Chemistry, 2005, 2005, 3571-3583.	1.0	56
89	Colloidal Cobalt-Doped ZnO Nanorods:â€‰ Synthesis, Structural, and Magnetic Properties. Journal of Physical Chemistry C, 2008, 112, 2412-2417.	1.5	56
90	Creation of 3-D Crystals from Single Cobalt Nanoparticles in External Magnetic Fields. Australian Journal of Chemistry, 2001, 54, 497.	0.5	54

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91	Preparation of Biocompatible, Luminescent-Plasmonic Core/Shell Nanomaterials Based on Lanthanide and Gold Nanoparticles Exhibiting SERS Effects. Journal of Physical Chemistry C, 2016, 120, 23788-23798.	1.5	53
92	Long-term release of antibiotics by carbon nanotube-coated titanium alloy surfaces diminish biofilm formation by Staphylococcus epidermidis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1587-1593.	1.7	52
93	Sulfur colloids as temporary energy reservoirs for Thiobacillus ferrooxidans during pyrite oxidation. Archives of Microbiology, 1995, 163, 352-356.	1.0	51
94	Stepwise interfacial self-assembly of nanoparticles via specific DNA pairing. Physical Chemistry Chemical Physics, 2007, 9, 6313.	1.3	51
95	Analysis of colloids. Journal of Chromatography A, 1994, 688, 97-105.	1.8	50
96	Eu³⁺and Tb³⁺doped LaPO₄nanorods, modified with a luminescent organic compound, exhibiting tunable multicolour emission. RSC Advances, 2014, 4, 46305-46312.	1.7	50
97	A novel method for the deposition of nanocrystalline Bi2Se3, Sb2Se3 and Bi2Se3â€“Sb2Se3 thin films â€” SILAR. Applied Surface Science, 2001, 182, 413-417.	3.1	49
98	The microstructure and stoichiometry of pyrite FeS_{2â^'x}. Journal of Materials Research, 1992, 7, 1829-1838.	1.2	48
99	Magnetic properties of arrays of interacting Co nanocrystals. Journal of Magnetism and Magnetic Materials, 2002, 240, 40-43.	1.0	48
100	Structural characterization of chemically deposited Bi2S3 and Bi2Se3 thin films. Applied Surface Science, 2002, 187, 108-115.	3.1	48
101	Vertically Aligned Carbon Nanotubes as Cytocompatible Material for Enhanced Adhesion and Proliferation of Osteoblast-Like Cells. Journal of Nanoscience and Nanotechnology, 2007, 7, 1679-1683.	0.9	47
102	Asymmetric Functional Colloids Through Selective Hemisphere Modification. Advanced Materials, 2005, 17, 2014-2018.	11.1	46
103	Structural, spectroscopic and cytotoxicity studies of TbF3@CeF3 and TbF3@CeF3@SiO2 nanocrystals. Journal of Nanoparticle Research, 2013, 15, 1958.	0.8	46
104	Optimization of hierarchical structure and nanoscale-enabled plasmonic refraction for window electrodes in photovoltaics. Nature Communications, 2016, 7, 12825.	5.8	46
105	Spectroscopic, structural and in vitro cytotoxicity evaluation of luminescent, lanthanide doped core@shell nanomaterials GdVO4:Eu3+5%@SiO2@NH2. Journal of Colloid and Interface Science, 2016, 481, 245-255.	5.0	45
106	Efficient solar hydrogen generation in microgravity environment. Nature Communications, 2018, 9, 2527.	5.8	45
107	Green ErIII luminescence in fractal ZnO nanolattices. Applied Physics Letters, 2002, 81, 3858-3860.	1.5	43
108	Micromechanical properties of consecutive layers in specialized insect cuticle: the gula ofPachnoda marginata(Coleoptera, Scarabaeidae)and the infrared sensilla ofMelanophila acuminata(Coleoptera,Buprestidae). Journal of Experimental Biology, 2008, 211, 2576-2583.	0.8	42

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109	Growing graphene on polycrystalline copper foils by ultra-high vacuum chemical vapor deposition. Carbon, 2014, 78, 347-355.	5.4	41
110	Imaging nanosized gold colloids by atomic force microscopy: a direct comparison with transmission electron microscopy. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3137.	1.7	40
111	An Approach to Fabrication of Metal Nanoring Arrays. Langmuir, 2010, 26, 3549-3554.	1.6	40
112	From Colloidal Co/CoO Core/Shell Nanoparticles to Arrays of Metallic Nanomagnets: Surface Modification and Magnetic Properties. ChemPhysChem, 2005, 6, 2522-2526.	1.0	39
113	Photochemical Synthesis and Multiphoton Luminescence of Monodisperse Silver Nanocrystals. Plasmonics, 2006, 1, 45-51.	1.8	39
114	Self-assembly of latex particles for the creation of nanostructures with tunable plasmonic properties. Journal of Materials Chemistry, 2011, 21, 16783.	6.7	39
115	Thin Layer Semiconducting Cluster Electrocatalysts for Oxygen Reduction. Journal of the Electrochemical Society, 1991, 138, 639-640.	1.3	38
116	Transparent metal electrodes from ordered nanosphere arrays. Journal of Applied Physics, 2013, 114, .	1.1	38
117	Composite spheres made of bioengineered spider silk and iron oxide nanoparticles for theranostics applications. PLoS ONE, 2019, 14, e0219790.	1.1	37
118	Gold encapsulation of star-shaped FePtnanoparticles. Journal of Materials Chemistry, 2010, 20, 61-64.	6.7	36
119	Preparation of Zn (O,S) thin films using modified chemical bath deposition method. Applied Surface Science, 2002, 187, 101-107.	3.1	35
120	Interaction Between Human Osteoblast Cells and Inorganic Two-Dimensional Scaffolds Based on Multiwalled Carbon Nanotubes: A Quantitative AFM Study. Advanced Functional Materials, 2008, 18, 3765-3771.	7.8	35
121	Nanoengineered Polymeric Thin Films by Sintering CNT-Coated Polystyrene Spheres. Small, 2006, 2, 220-224.	5.2	34
122	Magnetic Nanomaterials in Microfluidic Sensors for Virus Detection: A Review. ACS Applied Nano Materials, 2021, 4, 4307-4328.	2.4	31
123	Ordering of free-standing Co nanoparticles. Materials Science and Engineering C, 2003, 23, 949-952.	3.8	30
124	Optical strain detectors based on gold/elastomer nanoparticulated films. Gold Bulletin, 2007, 40, 6-14.	3.2	30
125	Structural modification of nanohydroxyapatite Ca10(PO4)6(OH)2 related to Eu3+ and Sr2+ ions doping and its spectroscopic and antimicrobial properties. Journal of Inorganic Biochemistry, 2020, 203, 110884.	1.5	30
126	Colloidal cadmium sulfide preparation via flow techniques: ultrasmall particles and the effect of a chromatographic column. Langmuir, 1992, 8, 1475-1478.	1.6	29

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127	Characterization of ultrasonic spray pyrolysed ruthenium oxide thin films. Thin Solid Films, 1997, 310, 57-62.	0.8	28
128	Magneto-optics of thin magnetic films composed of Co nanoparticles. Journal of Applied Physics, 2002, 92, 7481-7485.	1.1	28
129	A broadband solar absorber with 12â€‰nm thick ultrathin a-Si layer by using random metallic nanomeshes. Applied Physics Letters, 2014, 104, .	1.5	28
130	Multi-Walled Carbon Nanotubes and Metallic Nanoparticles and Their Application in Biomedicine. Journal of Nanoscience and Nanotechnology, 2006, 6, 316-321.	0.9	28
131	Cu2O quantum-dot particles prepared from nanostructured copper**. Advanced Materials, 1995, 7, 652-655.	11.1	27
132	Utilization of Carbon Nanotubes in Manufacturing of 3D Cartilage and Bone Scaffolds. Materials, 2020, 13, 4039.	1.3	26
133	Steady-State Radiolysis Study of the Reductive Dissolution of Ultrasmall Colloidal CuS. Langmuir, 1999, 15, 6637-6642.	1.6	25
134	Structure effects on the magnetism of AgCo nanoparticles. Acta Materialia, 2006, 54, 5251-5260.	3.8	25
135	A simple route for the attachment of colloidal nanocrystals to noncovalently modified multiwalled carbon nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 83-85.	2.3	25
136	Bioevaluation of superparamagnetic iron oxide nanoparticles (SPIONs) functionalized with dihexadecyl phosphate (DHP). Scientific Reports, 2020, 10, 2725.	1.6	25
137	Magnetite particles studied by MÃ¶ssbauer and magneto-optical Kerr effect. Journal of Applied Physics, 2004, 95, 1343-1350.	1.1	24
138	Osteoarthritis Severely Decreases the Elasticity and Hardness of Knee Joint Cartilage: A Nanoindentation Study. Journal of Clinical Medicine, 2019, 8, 1865.	1.0	24
139	Novel electrochemical process for the deposition of nanocrystalline NiFe2O4thin films. Journal of Physics Condensed Matter, 2004, 16, 773-784.	0.7	23
140	Lubricating performance of carbon nanotubes in internal combustion engines â€“ engine test results for CNT enriched oil. International Journal of Automotive Technology, 2017, 18, 1047-1059.	0.7	23
141	Scanning tunnelling microscopy observations of biomolecules on layered materials. Faraday Discussions, 1992, 94, 183-197.	1.6	22
142	Plasmonics of thin film quasitriangular nanoparticles. Applied Physics Letters, 2010, 96, 133104.	1.5	22
143	Band gap optimization of tin tungstate thin films for solar water oxidation. International Journal of Hydrogen Energy, 2020, 45, 8676-8685.	3.8	22
144	Gold Nanoparticle-Decorated Bi2S3 Nanorods and Nanoflowers for Photocatalytic Wastewater Treatment. Catalysts, 2021, 11, 355.	1.6	22

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145	Growth model of CuGaSe2 grains in a Cu-rich/Cu-poor bilayer process. Journal of Applied Physics, 2003, 94, 6864-6870.	1.1	21
146	Exchange bias effects in submicron antiferromagnetic-ferromagnetic dots prepared by nanosphere lithography. Journal of Applied Physics, 2004, 95, 7516-7518.	1.1	21
147	Nanosphere lithography -- exploiting self-assembly on the nanoscale for sophisticated nanostructure fabrication. Turkish Journal of Physics, 2014, 38, 563-572.	0.5	21
148	<I>In Vitro</I> Evaluation of Carbon Nanotube-Based Scaffolds for Cartilage Tissue Engineering. Journal of Nanoscience and Nanotechnology, 2016, 16, 9022-9025.	0.9	20
149	Interactions between magnetic nanoparticles and model lipid bilayersâ€"Fourier transformed infrared spectroscopy (FTIR) studies of the molecular basis of nanotoxicity. Journal of Applied Physics, 2016, 120, .	1.1	20
150	Structure and self-assembling of Co nanoparticles. Materials Science and Engineering C, 2007, 27, 23-28.	3.8	19
151	Analysis of colloidal particles V. size-exclusion chromatography of colloidal semiconductor particles. Journal of Chromatography A, 1994, 670, 89-97.	1.8	18
152	Room temperature synthesis of nanocrystalline ferrite (MFe2O4, M = Cu, Co and Ni) thin films using novel electrochemical route. Applied Surface Science, 2001, 182, 366-371.	3.1	18
153	Evidence for critical scaling of plasmonic modes at the percolation threshold in metallic nanostructures. Applied Physics Letters, 2013, 103, .	1.5	18
154	In-situ electrochemical doping of nanoporous anodic aluminum oxide with indigo carmine organic dye. Thin Solid Films, 2016, 598, 60-64.	0.8	18
155	Synthesis and Photochemistry of Quantumâ€Size Semiconductor Particles in Solution and in Modified Layers. Israel Journal of Chemistry, 1993, 33, 107-113.	1.0	17
156	Shape Control of Periodic Metallic Nanostructures for Transparent Conductive Films. Particle and Particle Systems Characterization, 2017, 34, 1600262.	1.2	17
157	Structure and magnetic properties of Nd2(Fe,Co,Al,Cr)14B/Î±-Fe nanocomposite magnets. Journal of Alloys and Compounds, 2003, 349, 311-315.	2.8	16
158	The influence of ligand charge and length on the assembly of Brome mosaic virus derived virus-like particles with magnetic core. AIP Advances, 2018, 8, .	0.6	16
159	On the road from single, nanosized magnetic clusters to multi-dimensional nanostructures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 207-213.	2.3	15
160	Structural study of self-assembled Co nanoparticles. Journal of Applied Physics, 2003, 94, 7743.	1.1	15
161	Enhanced broad-band extraordinary optical transmission through subwavelength perforated metallic films on strongly polarizable substrates. Applied Physics Letters, 2013, 102, .	1.5	15
162	Nanoscopic carbon electrodes: Structure, electrical properties and application for electrochemistry. Carbon, 2018, 130, 768-774.	5.4	15

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163	A PTFE helical capillary microreactor for the high throughput synthesis of monodisperse silica particles. Chemical Engineering Journal, 2020, 401, 126063.	6.6	15
164	Nano-bridged nanosphere lithography. Nanotechnology, 2020, 31, 245302.	1.3	15
165	The effect of nickel nanostructure on surface waves propagation in silicon support. Journal of Alloys and Compounds, 2012, 527, 96-100.	2.8	14
166	Nanoribbon Plasmonic Gratings and their Anomalous Interaction with Electromagnetic Waves. Advanced Materials, 2012, 24, 3042-3045.	11.1	14
167	Transparent Nanowire Network Electrode for Textured Semiconductors. Small, 2013, 9, 733-737.	5.2	14
168	Observation of a hole-size-dependent energy shift of the surface-plasmon resonance in Ni antidot thin films. Applied Physics Letters, 2015, 106, .	1.5	14
169	Effect of Mo-doping in SnO2 thin film photoanodes for water oxidation. International Journal of Hydrogen Energy, 2020, 45, 33448-33456.	3.8	14
170	Magnetron sputtered copper bismuth oxide photocathodes for solar water reduction. Journal Physics D: Applied Physics, 2020, 53, 495501.	1.3	14
171	Co/CoO coreâ€“shell nanoparticlesâ€”Temperature-dependent magneto-optic studies. Materials Chemistry and Physics, 2008, 112, 1129-1132.	2.0	13
172	Cells and Nanomaterial-Based Tissue Engineering Techniques in the Treatment of Bone and Cartilage Injuries. Journal of Nanoscience and Nanotechnology, 2016, 16, 8948-8952.	0.9	13
173	Direct Observation of Reverse Transcriptases by Scanning Tunneling Microscopy. AIDS Research and Human Retroviruses, 1992, 8, 1663-1667.	0.5	12
174	Microstructural characterisation of nanocrystalline GaN prepared by detonations of gallium azides. Advanced Materials for Optics and Electronics, 1998, 8, 135-146.	0.5	12
175	Structure and Magnetism of Co and CoAg Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 721, 1.	0.1	12
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