

# Aharon Gedanken

## List of Publications by Year in descending order

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689  
papers

41,453  
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1893

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698  
all docs

698  
docs citations

698  
times ranked

38663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using sonochemistry for the fabrication of nanomaterials. Ultrasonics Sonochemistry, 2004, 11, 47-55.	8.2	1,058
2	Enhanced Antibacterial Activity of Nanocrystalline ZnO Due to Increased ROS-Mediated Cell Injury. Advanced Functional Materials, 2009, 19, 842-852.	14.9	850
3	Synthesis, Characterization, and Properties of Metallic Copper Nanoparticles. Chemistry of Materials, 1998, 10, 1446-1452.	6.7	574
4	Sonochemical Synthesis and Characterization of Nanometer-Size Transition Metal Oxides from Metal Acetates. Chemistry of Materials, 2000, 12, 2301-2305.	6.7	556
5	Microwave-Assisted Synthesis of Nanocrystalline MgO and Its Use as a Bactericide. Advanced Functional Materials, 2005, 15, 1708-1715.	14.9	493
6	Shape-Controlled Synthesis of Silver Nanoparticles by Pulse Sonoelectrochemical Methods. Langmuir, 2000, 16, 6396-6399.	3.5	476
7	Understanding the Antibacterial Mechanism of CuO Nanoparticles: Revealing the Route of Induced Oxidative Stress. Small, 2012, 8, 3326-3337.	10.0	448
8	The Surface Chemistry of Au Colloids and Their Interactions with Functional Amino Acids. Journal of Physical Chemistry B, 2004, 108, 4046-4052.	2.6	410
9	Sonochemical Deposition of Silver Nanoparticles on Silica Spheres. Langmuir, 2002, 18, 3352-3357.	3.5	407
10	Antifungal activity of ZnO nanoparticles—the role of ROS mediated cell injury. Nanotechnology, 2011, 22, 105101.	2.6	396
11	Sonochemical coating of silver nanoparticles on textile fabrics (nylon, polyester and cotton) and their antibacterial activity. Nanotechnology, 2008, 19, 245705.	2.6	371
12	Sonochemical Preparation and Size-Dependent Properties of Nanostructured CoFe <sub>2</sub> O <sub>4</sub> Particles. Chemistry of Materials, 1998, 10, 3445-3450.	6.7	361
13	Sonochemical Synthesis of Cerium Oxide Nanoparticles—Effect of Additives and Quantum Size Effect. Journal of Colloid and Interface Science, 2002, 246, 78-84.	9.4	340
14	Sonochemical Synthesis of SnO <sub>2</sub> Nanoparticles and Their Preliminary Study as Li Insertion Electrodes. Chemistry of Materials, 2000, 12, 2557-2566.	6.7	331
15	Microwave Assisted Preparation of CdSe, PbSe, and Cu <sub>2-x</sub> Se Nanoparticles. Journal of Physical Chemistry B, 2000, 104, 7344-7347.	2.6	327
16	Inhibition of Herpes Simplex Virus Type 1 Infection by Silver Nanoparticles Capped with Mercaptoethane Sulfonate. Bioconjugate Chemistry, 2009, 20, 1497-1502.	3.6	305
17	CuO—cotton nanocomposite: Formation, morphology, and antibacterial activity. Surface and Coatings Technology, 2009, 204, 54-57.	4.8	295
18	Sonochemical Preparation of Nanosized Amorphous NiFe <sub>2</sub> O <sub>4</sub> Particles. Journal of Physical Chemistry B, 1997, 101, 6409-6414.	2.6	279

#	ARTICLE	IF	CITATIONS
19	Sonochemical synthesis and characterization of pure nanometer-sized Fe <sub>3</sub> O <sub>4</sub> particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 101-105.	5.6	278
20	Sonochemical Preparation and Characterization of Nanocrystalline Copper Oxide Embedded in Poly(vinyl alcohol) and Its Effect on Crystal Growth of Copper Oxide. Langmuir, 2001, 17, 1406-1410.	3.5	277
21	Surface Synthesis of Zinc Sulfide Nanoparticles on Silica Microspheres: Sonochemical Preparation, Characterization, and Optical Properties. Chemistry of Materials, 1999, 11, 806-813.	6.7	272
22	Antibacterial Properties of an In Situ Generated and Simultaneously Deposited Nanocrystalline ZnO on Fabrics. ACS Applied Materials & Interfaces, 2009, 1, 361-366.	8.0	268
23	Nanoparticles of SnO Produced by Sonochemistry as Anode Materials for Rechargeable Lithium Batteries. Chemistry of Materials, 2002, 14, 4155-4163.	6.7	265
24	Synthesis of Nanosized $\gamma$ -Nickel Hydroxide by a Sonochemical Method. Nano Letters, 2001, 1, 263-266.	9.1	263
25	Amorphous Iron(III) Oxide: A Review. Journal of Physical Chemistry B, 2007, 111, 4003-4018.	2.6	260
26	Sonochemical synthesis of amorphous Cu and nanocrystalline Cu <sub>2</sub> O embedded in a polyaniline matrix. Journal of Materials Chemistry, 2001, 11, 1209-1213.	6.7	258
27	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. Langmuir, 1999, 15, 7111-7115.	3.5	251
28	Deposition of Gold Nanoparticles on Silica Spheres: A Sonochemical Approach. Chemistry of Materials, 2003, 15, 1111-1118.	6.7	239
29	Sonochemical Synthesis of Mesoporous Titanium Oxide with Wormhole-like Framework Structures. Advanced Materials, 2000, 12, 1183-1186.	21.0	238
30	Sonochemical synthesis of titania whiskers and nanotubes. Chemical Communications, 2001, , 2616-2617.	4.1	237
31	Selective cytotoxic effect of ZnO nanoparticles on glioma cells. Nano Research, 2009, 2, 882-890.	10.4	236
32	The sonochemical preparation of amorphous silver nanoparticles. Journal of Materials Chemistry, 1999, 9, 1333-1335.	6.7	228
33	Synthesis of Hexagonal-Shaped SnO <sub>2</sub> Nanocrystals and SnO <sub>2</sub> @C Nanocomposites for Electrochemical Redox Supercapacitors. Journal of Physical Chemistry C, 2008, 112, 1825-1830.	3.1	223
34	EPR Study of Visible Light-Induced ROS Generation by Nanoparticles of ZnO. Journal of Physical Chemistry C, 2009, 113, 15997-16001.	3.1	213
35	Improving the high-temperature performance of LiMn <sub>2</sub> O <sub>4</sub> spinel electrodes by coating the active mass with MgO via a sonochemical method. Electrochemistry Communications, 2003, 5, 940-945.	4.7	209
36	Bio-diesel production directly from the microalgae biomass of Nannochloropsis by microwave and ultrasound radiation. Bioresource Technology, 2011, 102, 4265-4269.	9.6	209

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37	Microwave Synthesis of Coreâ€”Shell Gold/Palladium Bimetallic Nanoparticles. <i>Langmuir</i> , 2004, 20, 3431-3434.	3.5	195
38	Sonochemical Coating of Textiles with Hybrid ZnO/Chitosan Antimicrobial Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1164-1172.	8.0	194
39	Cu <sub>0.89</sub> Zn <sub>0.11</sub> O, A New Peroxidase-Mimicking Nanozyme with High Sensitivity for Glucose and Antioxidant Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22301-22308.	8.0	190
40	General Sonochemical Method for the Preparation of Nanophasic Selenides:Â Synthesis of ZnSe Nanoparticles. <i>Chemistry of Materials</i> , 2000, 12, 73-78.	6.7	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.	2.6	188
42	Chitosan and chitosanâ€”ZnO-based complex nanoparticles: formation, characterization, and antibacterial activity. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1968.	5.8	187
43	Inhibition of HSVâ€”1 Attachment, Entry, and Cellâ€”Cell Spread by Functionalized Multivalent Gold Nanoparticles. <i>Small</i> , 2010, 6, 1044-1050.	10.0	186
44	ZnO nanoparticle-coated surfaces inhibit bacterial biofilm formation and increase antibiotic susceptibility. <i>RSC Advances</i> , 2012, 2, 2314.	3.6	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.	6.7	183
46	Acoustic Cavitation Leading to the Morphosynthesis of Mesoporous Silica Vesicles. <i>Advanced Materials</i> , 2002, 14, 1414-1418.	21.0	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 Multiâ€”Drug Resistant Bacteria by a Novel Znâ€”doped CuO Nanocomposite. <i>Small</i> , 2013, 9, 4069-4076.	10.0	177
49	Sonochemical Preparation and Characterization of Eu <sub>2</sub> O <sub>3</sub> and Tb <sub>2</sub> O <sub>3</sub> Doped in and Coated on Silica and Alumina Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3361-3365.	2.6	176
50	Sonochemical Coating of Paper by Microbiocidal Silver Nanoparticles. <i>Langmuir</i> , 2011, 27, 720-726.	3.5	169
51	Synthesis and Characterization of TiO <sub>2</sub> @C Coreâ€”Shell Composite Nanoparticles and Evaluation of Their Photocatalytic Activities. <i>Chemistry of Materials</i> , 2006, 18, 2275-2282.	6.7	166
52	Selective synthesis of anatase and rutile via ultrasound irradiation. <i>Chemical Communications</i> , 2000, , 1415-1416.	4.1	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.	2.6	164
54	Fabrication of magnetite nanorods by ultrasound irradiation. <i>Journal of Applied Physics</i> , 2001, 89, 6324-6328.	2.5	158

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55	Coating Noble Metal Nanocrystals (Ag, Au, Pd, and Pt) on Polystyrene Spheres via Ultrasound Irradiation. <i>Langmuir</i> , 2005, 21, 3635-3640.	3.5	158
56	Synthesis of Porous $\text{Fe}_2\text{O}_3$ 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.	6.7	158
57	Ultrasonically Controlled Deposition–Precipitation. <i>Journal of Catalysis</i> , 2001, 201, 22-36.	6.2	155
58	Carbon spherules: synthesis, properties and mechanistic elucidation. <i>Carbon</i> , 2004, 42, 111-116.	10.3	153
59	Sonochemical preparation of amorphous nickel. <i>Journal of Non-Crystalline Solids</i> , 1996, 201, 159-162.	3.1	151
60	Synthesis of Long Silver Nanowires from AgBr Nanocrystals. <i>Advanced Materials</i> , 2001, 13, 656-658.	21.0	150
61	Antibiofilm activity of nanosized magnesium fluoride. <i>Biomaterials</i> , 2009, 30, 5969-5978.	11.4	150
62	Electronic Energy Transfer Phenomena in Rare Gases. <i>Journal of Chemical Physics</i> , 1972, 57, 3456-3469.	3.0	149
63	Coating Carboxylic Acids on Amorphous Iron Nanoparticles. <i>Langmuir</i> , 1999, 15, 1703-1708.	3.5	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.	21.0	149
65	Synthesis of pure amorphous $\text{Fe}_2\text{O}_3$ . <i>Journal of Materials Research</i> , 1997, 12, 402-406.	2.6	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 &amp; Interfaces</i> , 2014, 6, 1228-1235.	8.0	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.	6.7	140
69	Sonochemical synthesis of stable hydrosol of $\text{Fe}_3\text{O}_4$ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 489-494.	9.4	138
70	Controlling the Particle Size of Calcined $\text{SnO}_2$ Nanocrystals. <i>Nano Letters</i> , 2001, 1, 723-726.	9.1	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.	6.4	132

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73	Sonochemical synthesis of carbon dots, mechanism, effect of parameters, and catalytic, energy, biomedical and tissue engineering applications. Ultrasonics Sonochemistry, 2020, 64, 105009.	8.2	132
74	Exceptionally Active and Stable Spinel Nickel Manganese Oxide Electrocatalysts for Urea Oxidation Reaction. ACS Applied Materials & Interfaces, 2016, 8, 12176-12185.	8.0	130
75	Sonochemical and Microwave-Assisted Preparations of PbTe and PbSe. A Comparative Study. Chemistry of Materials, 2001, 13, 1413-1419.	6.7	127
76	Preparation and Characteristics of Carbon Nanotubes Filled with Cobalt. Chemistry of Materials, 2000, 12, 2205-2211.	6.7	126
77	Evaluation of metal oxide phase assembling mode inside the nanotubular pores of mesostructured silica. Microporous and Mesoporous Materials, 2005, 79, 307-318.	4.4	125
78	Sonochemical Coatings of ZnO and CuO Nanoparticles Inhibit Streptococcus mutans Biofilm Formation on Teeth Model. Langmuir, 2012, 28, 12288-12295.	3.5	124
79	Microwave-Assisted Polyol Synthesis of CuInTe <sub>2</sub> and CuInSe <sub>2</sub> Nanoparticles. Inorganic Chemistry, 2003, 42, 7148-7155.	4.0	122
80	Pilot scale sonochemical coating of nanoparticles onto textiles to produce biocidal fabrics. Surface and Coatings Technology, 2009, 204, 718-722.	4.8	122
81	Protein Microgels from Amyloid Fibril Networks. ACS Nano, 2015, 9, 43-51.	14.6	121
82	Synthesis and Characterization of Rare Earth Orthovanadate (RVO <sub>4</sub> ; R=La, Ce, Nd, Sm, Eu & Gd) Nanorods/Nanocrystals/Nanospindles by a Facile Sonochemical Method and Their Catalytic Properties. Journal of Cluster Science, 2009, 20, 291-305.	3.3	118
83	Microwave assisted preparation of binary oxide nanoparticles. Journal of Materials Chemistry, 2000, 10, 1251-1254.	6.7	117
84	Microwave-assisted polyol method for the preparation of CdSe "nanoballs". Journal of Materials Chemistry, 2001, 11, 874-878.	6.7	116
85	Sonochemical Hydrolysis of Ga <sup>3+</sup> Ions: Synthesis of Scroll-like Cylindrical Nanoparticles of Gallium Oxide Hydroxide. Journal of the American Chemical Society, 1999, 121, 4196-4199.	13.7	115
86	Coating of glass with ZnO via ultrasonic irradiation and a study of its antibacterial properties. Applied Surface Science, 2009, 256, S3-S8.	6.1	114
87	Synthesis of Europium Oxide Nanorods by Ultrasound Irradiation. Journal of Physical Chemistry B, 2002, 106, 9737-9743.	2.6	113
88	A template-free, sonochemical route to porous ZnO nano-disks. Microporous and Mesoporous Materials, 2008, 110, 553-559.	4.4	113
89	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. ACS Applied Nano Materials, 2020, 3, 11777-11790.	5.0	113
90	Pulsed Sonoelectrochemical Synthesis of Cadmium Selenide Nanoparticles. Journal of the American Chemical Society, 1999, 121, 10047-10052.	13.7	112

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91	A Novel Method for the Preparation of Lead Selenide:Â Pulse Sonoelectrochemical Synthesis of Lead Selenide Nanoparticles. Chemistry of Materials, 2000, 12, 143-147.	6.7	112
92	SnS2 anode for rechargeable lithium battery. Journal of Power Sources, 2001, 97-98, 198-200.	7.8	112
93	Sonochemical Preparation and Characterization of Ultrafine Chromium Oxide and Manganese Oxide Powders. Chemistry of Materials, 1997, 9, 3159-3163.	6.7	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.	2.6	111
95	Simultaneous sonochemical-enzymatic coating of medical textiles with antibacterial ZnO nanoparticles. Ultrasonics Sonochemistry, 2016, 29, 244-250.	8.2	111
96	Hexagonal plate-like Niâ€“Coâ€“Mn hydroxide nanostructures to achieve high energy density of hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 11362-11369.	10.3	110
97	Encapsulation of Nickel Nanoparticles in Carbon Obtained by the Sonochemical Decomposition of Ni(C8H12)2. Chemistry of Materials, 1999, 11, 1331-1335.	6.7	109
98	Synthesis of Highly Magnetic, Air-Stable Ironâ€“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.	13.8	109
99	Sonochemical Deposition and Characterization of Nanophasic Amorphous Nickel on Silica Microspheres. Chemistry of Materials, 1997, 9, 546-551.	6.7	108
100	Carbon-Coated Anatase TiO2 Nanocomposite as a High-Performance Electrocatalyst Support. Small, 2007, 3, 1189-1193.	10.0	107
101	Catalytic Aerobic Oxidation of Cycloalkanes with Nanostructured Amorphous Metals and Alloys. Angewandte Chemie - International Edition, 1999, 38, 3521-3523.	13.8	106
102	Sonochemical Synthesis and Optical Properties of Europium Oxide Nanolayer Coated on Titania. Chemistry of Materials, 2002, 14, 3920-3924.	6.7	106
103	Microwave approach for the synthesis of rhabdophane-type lanthanide orthophosphate (Ln = La, Ce,) Tj ETQq1 1 0.784314 rgBT /Ove 733.	2.8	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.	2.9	105
105	Sonohydrolysis of In3+Ions:Â Formation of Needlelike Particles of Indium Hydroxide. Chemistry of Materials, 2000, 12, 1229-1233.	6.7	105
106	Sonochemical synthesis of nanocrystalline LaFeO3. Journal of Materials Chemistry, 2004, 14, 764.	6.7	103
107	Sonochemical Synthesis of Mesoporous Tin Oxide. Langmuir, 2002, 18, 4160-4164.	3.5	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.	2.3	101



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109	Preparing Carbon Nanotubes and Nested Fullerenes from Supercritical CO <sub>2</sub> by a Chemical Reaction. Journal of the American Chemical Society, 2001, 123, 8624-8625.	13.7	100
110	Synthesis of metallic magnesium nanoparticles by sonoelectrochemistry. Chemical Communications, 2008, , 1795.	4.1	100
111	The influence of the crystalline nature of nano-metal oxides on their antibacterial and toxicity properties. Nano Research, 2015, 8, 695-707.	10.4	100
112	Pro-angiogenic Properties of Europium(III) Hydroxide Nanorods. Advanced Materials, 2008, 20, 753-756.	21.0	99
113	Continuous Flow, Circulating Microwave System and Its Application in Nanoparticle Fabrication and Biodiesel Synthesis. Journal of Physical Chemistry C, 2008, 112, 8802-8808.	3.1	99
114	Achievement and assessment of direct electron transfer of glucose oxidase in electrochemical biosensing using carbon nanotubes, graphene, and their nanocomposites. Mikrochimica Acta, 2017, 184, 369-388.	5.0	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) <sub>6</sub> 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 <a href="http://www.rsc.org/suppdata/jm/b1/b106036h/">http://www.rsc.org/suppdata/jm/b1/b106036h/</a> . Journal of Materials Chemistry, 2003, 13, 1107-1110.	6.7	97
116	Carbon-Coated Core Shell Structured Copper and Nickel Nanoparticles Synthesized in an Ionic Liquid. Journal of Physical Chemistry B, 2006, 110, 17711-17714.	2.6	97
117	Single Step, Low-Temperature Synthesis of Submicron-Sized Rare Earth Hexaborides. Journal of Physical Chemistry C, 2008, 112, 1795-1802.	3.1	97
118	Preparation of Luminescent Silicon Nanoparticles: A Novel Sonochemical Approach. Chemistry of Materials, 1998, 10, 3278-3281.	6.7	96
119	Magnetic irreversibility and relaxation in assembly of ferromagnetic nanoparticles. Physical Review B, 1999, 59, 6956-6965.	3.2	95
120	Synthesis of morphologically controlled lanthanum carbonate particles using ultrasound irradiation. Journal of Materials Chemistry, 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. ACS Omega, 2018, 3, 7196-7203.	3.5	94
122	A One-Step Process for the Antimicrobial Finishing of Textiles with Crystalline TiO <sub>2</sub> Nanoparticles. Chemistry - A European Journal, 2012, 18, 4575-4582.	3.3	92
123	Characterization of Sonochemically Prepared Unsupported and Silica-Supported Nanostructured Pentavalent Molybdenum Oxide. Journal of Physical Chemistry B, 1997, 101, 9495-9503.	2.6	91
124	Structural, magnetic, electrical and electrochemical properties of NiFe <sub>2</sub> O <sub>4</sub> synthesized by the molten salt technique. Materials Chemistry and Physics, 2011, 130, 285-292.	4.0	91
125	Sonochemical synthesis and characterization of Ag <sub>2</sub> S/PVA and CuS/PVA nanocomposite. Ultrasonics Sonochemistry, 2002, 9, 65-70.	8.2	90
126	Reactions under Autogenic Pressure at Elevated Temperature (RAPET) of Various Alkoxides: Formation of Metals/Metal Oxides-Carbon Core-Shell Structures. Chemistry - A European Journal, 2004, 10, 4467-4473.	3.3	90



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127	Synthesis of WC Nanotubes. <i>Advanced Materials</i> , 2006, 18, 2023-2027.	21.0	90
128	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51940-51951.	8.0	90
129	Preparation and Properties of Proteinaceous Microspheres Made Sonochemically. <i>Chemistry - A European Journal</i> , 2008, 14, 3840-3853.	3.3	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.	3.1	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.	10.2	89
132	Accelerated Bone Regeneration by Nitrogen-Doped Carbon Dots Functionalized with Hydroxyapatite Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19373-19385.	8.0	89
133	In Situ Preparation of Amorphous Carbon-Activated Palladium Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6834-6838.	2.6	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.	3.3	87
135	Sonochemical Deposition of Air-Stable Iron Nanoparticles on Monodispersed Carbon Spherules. <i>Chemistry of Materials</i> , 2003, 15, 1378-1384.	6.7	87
136	Doping nanoparticles into polymers and ceramics using ultrasound radiation. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 418-430.	8.2	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.	9.6	86
138	Antibiofilm surface functionalization of catheters by magnesium fluoride nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 1175.	6.7	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.	4.6	86
140	Suspensive Electrode Formation in Pulsed Sonoelectrochemical Synthesis of Silver Nanoparticles. <i>Langmuir</i> , 2002, 18, 4736-4740.	3.5	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.	3.6	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.	14.9	83
143	Sonochemical preparation of nanosized amorphous Fe-Ni alloys. <i>Journal of Applied Physics</i> , 1997, 81, 6901-6905.	2.5	81
144	Methanation of Carbon Dioxide on Ni Catalysts on Mesoporous ZrO <sub>2</sub> Doped with Rare Earth Oxides. <i>Catalysis Letters</i> , 2009, 130, 455-462.	2.6	80

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145	Annealing study of Fe <sub>2</sub> O <sub>3</sub> nanoparticles: Magnetic size effects and phase transformations. Journal of Applied Physics, 2002, 91, 4611-4616.	2.5	79
146	Continuous flow through a microwave oven for the large-scale production of biodiesel from waste cooking oil. Bioresource Technology, 2017, 224, 333-341.	9.6	79
147	Mesoporous iron-titania catalyst for cyclohexane oxidation. Chemical Communications, 2001, , 988-989.	4.1	78
148	Single step production of bioethanol from the seaweed <i>Ulva rigida</i> using sonication. RSC Advances, 2015, 5, 16223-16229.	3.6	78
149	Immobilization of Heteroatom-Doped Carbon Dots onto Nonpolar Plastics for Antifogging, Antioxidant, and Food Monitoring Applications. Langmuir, 2021, 37, 3508-3520.	3.5	78
150	Oxidation of cyclohexane with nanostructured amorphous catalysts under mild conditions. Applied Catalysis A: General, 2001, 209, 125-130.	4.3	77
151	Sonochemical synthesis, structural and magnetic properties of air-stable Fe/Co alloy nanoparticles. New Journal of Chemistry, 2003, 27, 1194.	2.8	77
152	Synthesis of cobalt(ii) hydroxide using ultrasound radiation. Journal of Materials Chemistry, 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. Langmuir, 2003, 19, 10409-10413.	3.5	76
154	Novel Synthesis of High Surface Area Silicon Carbide by RAPET (Reactions under Autogenic Pressure at Tj ETQq0 0 0,rgBT /Overlock 10	6.7	76
155	High yield one-step synthesis of carbon spheres produced by dissociating individual hydrocarbons at their autogenic pressure at low temperatures. Carbon, 2006, 44, 3285-3292.	10.3	75
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