

# Aharon Gedanken

## List of Publications by Year in descending order

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689  
papers

41,453  
citations

1883

102  
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5364

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 <sub>2</sub> O <sub>4</sub> 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 <sub>2</sub> 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 <sub>2-x</sub> 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 <sub>2</sub> O <sub>4</sub> Particles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6409-6414.	1.2	279

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19	Sonochemical synthesis and characterization of pure nanometer-sized Fe <sub>3</sub> O <sub>4</sub> particles. <i>Materials Science &amp; 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 &amp; 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 <sub>2</sub> 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 <sub>2</sub> Nanocrystals and SnO <sub>2</sub> @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 <sub>2</sub> O <sub>4</sub> 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

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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 &amp; Interfaces</i> , 2014, 6, 1164-1172.	4.0	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.	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 <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.	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 <sub>2</sub> @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

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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.	1.6	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.	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 $\text{Fe}_2\text{O}_3$ . <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 &amp; 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 <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 489-494.	5.0	138
70	Controlling the Particle Size of Calcined SnO <sub>2</sub> 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

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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 &amp; 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 <sub>2</sub> and CuInSe <sub>2</sub> 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 <sub>4</sub> ; 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 <sup>3+</sup> 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 Sonoelectrochemical Synthesis of Cadmium Selenide Nanoparticles. <i>Journal of the American Chemical Society</i> , 1999, 121, 10047-10052.	6.6	112

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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 <sub>2</sub> 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 <sub>8</sub> H <sub>12</sub> ) <sub>2</sub> . 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 <sub>2</sub> 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 <sup>3+</sup> Ions: Formation of Needlelike Particles of Indium Hydroxide. Chemistry of Materials, 2000, 12, 1229-1233.	3.2	105
106	Sonochemical synthesis of nanocrystalline LaFeO <sub>3</sub> . 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) <sub>5</sub> . Journal of Magnetism and Magnetic Materials, 2004, 268, 95-104.	1.0	101

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109	Preparing Carbon Nanotubes and Nested Fullerenes from Supercritical CO <sub>2</sub> 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) <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> . <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 <sub>2</sub> 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 <sub>2</sub> O <sub>4</sub> 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 <sub>2</sub> 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 Al <sub>2</sub> O <sub>3</sub> Oxides: Formation of Metals/Metal Oxides-Carbon Core-Shell Structures. <i>Chemistry - A European Journal</i> , 2004, 10, 4467-4473.	1.7	90



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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 &amp; 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 &amp; 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 <sub>2</sub> Doped with Rare Earth Oxides. <i>Catalysis Letters</i> , 2009, 130, 455-462.	1.4	80

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