

# Wolfgang Tremel

## List of Publications by Year in descending order

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476  
papers

19,930  
citations

9775

73  
h-index

22147

113  
g-index

558  
all docs

558  
docs citations

558  
times ranked

22677  
citing authors

#	ARTICLE	IF	CITATIONS
1	V <sub>2</sub> O <sub>5</sub> Nanowires with an Intrinsic Peroxidase-Like Activity. <i>Advanced Functional Materials</i> , 2011, 21, 501-509.	7.8	604
2	Vanadium pentoxide nanoparticles mimic vanadium haloperoxidases and thwart biofilm formation. <i>Nature Nanotechnology</i> , 2012, 7, 530-535.	15.6	570
3	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18753-18808.	5.2	563
4	Thermoelectrics: From history, a window to the future. <i>Materials Science and Engineering Reports</i> , 2019, 138, 100501.	14.8	341
5	Synthesis and bio-functionalization of magnetic nanoparticles for medical diagnosis and treatment. <i>Dalton Transactions</i> , 2011, 40, 6315.	1.6	243
6	Haloperoxidase Mimicry by CeO <sub>2</sub> Nanorods Combats Biofouling. <i>Advanced Materials</i> , 2017, 29, 1603823.	11.1	208
7	Extraordinary Performance of Carbon-Coated Anatase TiO <sub>2</sub> as Sodium-Ion Anode. <i>Advanced Energy Materials</i> , 2016, 6, 1501489.	10.2	205
8	Biofabrication of biosilica-glass by living organisms. <i>Natural Product Reports</i> , 2008, 25, 455.	5.2	191
9	Early Homogenous Amorphous Precursor Stages of Calcium Carbonate and Subsequent Crystal Growth in Levitated Droplets. <i>Journal of the American Chemical Society</i> , 2008, 130, 12342-12347.	6.6	191
10	Hydrogen Peroxide Sensing with Horseradish Peroxidase-Modified Polymer Single Conical Nanochannels. <i>Analytical Chemistry</i> , 2011, 83, 1673-1680.	3.2	168
11	Solids Go Bio: Inorganic Nanoparticles as Enzyme Mimics. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1906-1915.	1.0	167
12	Formation of siliceous spicules in the marine demosponge <i>Suberites domuncula</i> . <i>Cell and Tissue Research</i> , 2005, 321, 285-297.	1.5	164
13	Understanding the Tribochemical Mechanisms of IF-MoS <sub>2</sub> Nanoparticles Under Boundary Lubrication. <i>Tribology Letters</i> , 2011, 41, 55-64.	1.2	159
14	Biogenic synthesis of palladium nanoparticles using <i>Pulicaria glutinosa</i> extract and their catalytic activity towards the Suzuki coupling reaction. <i>Dalton Transactions</i> , 2014, 43, 9026-9031.	1.6	157
15	Highly efficient and stable dye-sensitized solar cells based on SnO <sub>2</sub> nanocrystals prepared by microwave-assisted synthesis. <i>Energy and Environmental Science</i> , 2012, 5, 5392-5400.	15.6	154
16	Thermoelectric Transport in Cu <sub>7</sub> PSe <sub>6</sub> with High Copper Ionic Mobility. <i>Journal of the American Chemical Society</i> , 2014, 136, 12035-12040.	6.6	154
17	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5724-5731.	1.5	154
18	Templated growth of calcite, vaterite and aragonite crystals on self-assembled monolayers of substituted alkylthiols on gold. <i>Journal of Materials Chemistry</i> , 1998, 8, 641-650.	6.7	153

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19	Reverse Micelle Synthesis and Characterization of ZnSe Nanoparticles. <i>Langmuir</i> , 2000, 16, 4049-4051.	1.6	153
20	Green synthesis of silver nanoparticles mediated by <i>Pulicaria glutinosa</i> extract. <i>International Journal of Nanomedicine</i> , 2013, 8, 1507.	3.3	151
21	Multifunctional Two-Photon Active Silica-Coated Au@MnO Janus Particles for Selective Dual Functionalization and Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 2473-2483.	6.6	146
22	Green Approach for the Effective Reduction of Graphene Oxide Using <i>Salvadora persica</i> L. Root (Miswak) Extract. <i>Nanoscale Research Letters</i> , 2015, 10, 987.	3.1	138
23	Templated Crystallisation of Calcium and Strontium Carbonates on Centred Rectangular Self-Assembled Monolayer Substrates. <i>Chemistry - A European Journal</i> , 1998, 4, 1834-1842.	1.7	137
24	Inorganic Nanotubes. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2175-2179.	7.2	136
25	Au@MnO Nanoflowers: Hybrid Nanocomposites for Selective Dual Functionalization and Imaging. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3976-3980.	7.2	135
26	Molybdenum Trioxide Nanoparticles with Intrinsic Sulfite Oxidase Activity. <i>ACS Nano</i> , 2014, 8, 5182-5189.	7.3	135
27	Square nets of main-group elements in solid-state materials. <i>Journal of the American Chemical Society</i> , 1987, 109, 124-140.	6.6	134
28	Synthesis and Characterization of Monodisperse Manganese Oxide Nanoparticles~Evaluation of the Nucleation and Growth Mechanism. <i>Chemistry of Materials</i> , 2009, 21, 3183-3190.	3.2	134
29	Influence of a Nano Phase Segregation on the Thermoelectric Properties of the p-Type Doped Stannite Compound $Cu_{2-x}Zn_{1-x}GeSe_4$ . <i>Journal of the American Chemical Society</i> , 2012, 134, 7147-7154.	6.6	129
30	Thermoelectric properties of $Sr_3GaSb_3$ ~ a chain-forming Zintl compound. <i>Energy and Environmental Science</i> , 2012, 5, 9121.	15.6	127
31	Sponge spicules as blueprints for the biofabrication of inorganic~organic composites and biomaterials. <i>Applied Microbiology and Biotechnology</i> , 2009, 83, 397-413.	1.7	126
32	Co-expression and Functional Interaction of Silicatein with Galectin. <i>Journal of Biological Chemistry</i> , 2006, 281, 12001-12009.	1.6	125
33	Metal-Organic Chemical Vapor Deposition Synthesis of Hollow Inorganic-Fullerene-Type $MoS_2$ and $MoSe_2$ Nanoparticles. <i>Advanced Materials</i> , 2005, 17, 2372-2375.	11.1	122
34	Metal Ion Affinity-based Biomolecular Recognition and Conjugation inside Synthetic Polymer Nanopores Modified with Iron~Terpyridine Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17307-17314.	6.6	120
35	Flexible Minerals: Self-Assembled Calcite Spicules with Extreme Bending Strength. <i>Science</i> , 2013, 339, 1298-1302.	6.0	118
36	Strong Stabilization of Amorphous Calcium Carbonate Emulsion by Ovalbumin: Gaining Insight into the Mechanism of ~Polymer-Induced Liquid Precursor~ Processes. <i>Journal of the American Chemical Society</i> , 2011, 133, 12642-12649.	6.6	117

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37	Siliceous spicules in marine demosponges (example <i>Suberites domuncula</i> ). <i>Micron</i> , 2006, 37, 107-120.	1.1	115
38	Carbonate-coordinated metal complexes precede the formation of liquid amorphous mineral emulsions of divalent metal carbonates. <i>Nanoscale</i> , 2011, 3, 1158.	2.8	114
39	Facile synthesis and characterization of monocrystalline cubic ZrO <sub>2</sub> nanoparticles. <i>Solid State Sciences</i> , 2007, 9, 1105-1109.	1.5	113
40	Facile Synthesis and Characterization of Functionalized, Monocrystalline Rutile TiO <sub>2</sub> Nanorods. <i>Langmuir</i> , 2006, 22, 5209-5212.	1.6	112
41	Formation of layered titania and zirconia catalysed by surface-bound silicatein. <i>Chemical Communications</i> , 2005, , 5533.	2.2	111
42	Nucleation and Growth of CaCO <sub>3</sub> Mediated by the Egg-White Protein Ovalbumin: A Time-Resolved <i>in situ</i> Study Using Small-Angle Neutron Scattering. <i>Journal of the American Chemical Society</i> , 2008, 130, 6879-6892.	6.6	110
43	Fibrous Nanozyme Dressings with Catalase-Like Activity for H <sub>2</sub> O <sub>2</sub> Reduction To Promote Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38024-38031.	4.0	107
44	Controlled synthesis of linear and branched Au@ZnO hybrid nanocrystals and their photocatalytic properties. <i>Nanoscale</i> , 2013, 5, 9944.	2.8	105
45	Humidity-Induced Grain Boundaries in MAPbI <sub>3</sub> Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6363-6368.	1.5	103
46	Zinc oxide nanoparticles for therapeutic purposes in cancer medicine. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4973-4989.	2.9	102
47	Colloid-Bound Catalysts for Ring-Opening Metathesis Polymerization: A Combination of Homogenous and Heterogeneous Properties. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2466-2468.	7.2	100
48	Facile large scale synthesis of WS <sub>2</sub> nanotubes from WO <sub>3</sub> nanorods prepared by a hydrothermal route. <i>Solid State Sciences</i> , 2005, 7, 67-72.	1.5	100
49	Phonon Scattering through a Local Anisotropic Structural Disorder in the Thermoelectric Solid Solution Cu <sub>2</sub> ZnGeSe <sub>4</sub> S Series of Solid Solutions. <i>Journal of the American Chemical Society</i> , 2013, 135, 726-732.	6.6	100
50	Ab Initio Structure Determination of Vaterite by Automated Electron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7041-7045.	7.2	98
51	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , 2018, 47, 11988-12010.	1.6	97
52	Effect of Isovalent Substitution on the Thermoelectric Properties of the Cu <sub>2</sub> ZnGeSe <sub>4</sub> S Series of Solid Solutions. <i>Journal of the American Chemical Society</i> , 2014, 136, 442-448.	6.6	95
53	Reactive Polymers: A Versatile Toolbox for the Immobilization of Functional Molecules on TiO <sub>2</sub> Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 908-912.	7.2	94
54	Solution Synthesis of a New Thermoelectric Zn <sub>1+x</sub> Sb Nanophase and Its Structure Determination Using Automated Electron Diffraction Tomography. <i>Journal of the American Chemical Society</i> , 2010, 132, 9881-9889.	6.6	94

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55	Monitoring the formation of biosilica catalysed by histidine-tagged silicatein. Chemical Communications, 2004, , 2848-2849.	2.2	92
56	Highly water-soluble magnetic iron oxide (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles for drug delivery: enhanced in vitro therapeutic efficacy of doxorubicin and MION conjugates. Journal of Materials Chemistry B, 2013, 1, 2874.	2.9	92
57	Poly(silicate)â€metabolizing silicatein in siliceous spicules and silicasomes of demosponges comprises dual enzymatic activities (silica polymerase and silica esterase). FEBS Journal, 2008, 275, 362-370.	2.2	91
58	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. Advanced Materials, 2015, 27, 7338-7343.	11.1	91
59	Overcoming the Insolubility of Molybdenum Disulfide Nanoparticles through a High Degree of Sidewall Functionalization Using Polymeric Chelating Ligands. Angewandte Chemie - International Edition, 2006, 45, 4809-4815.	7.2	89
60	Genotoxic effects of zinc oxide nanoparticles. Nanoscale, 2015, 7, 8931-8938.	2.8	89
61	Influence of Bindingâ€Site Density in Wet Bioadhesion. Advanced Materials, 2008, 20, 3872-3876.	11.1	85
62	Crystal Structure, Magnetic Properties, and <sup>57</sup> Fe MÃssbauer Spectroscopy of the Two-Dimensional Coordination Polymers [M(1,2-bis(1,2,4-triazol-4-yl)ethane)2(NCS)2] (MII= Fe, Co). Inorganic Chemistry, 2005, 44, 9723-9730.	1.9	83
63	Transition metal chalcogenides: new views on an old topic. Journal of Alloys and Compounds, 1995, 219, 73-82.	2.8	81
64	Enzymatic production of biosilica glass using enzymes from sponges: basic aspects and application in nanobiotechnology (material sciences and medicine). Die Naturwissenschaften, 2007, 94, 339-359.	0.6	81
65	Effect of precursor concentration on size evolution of iron oxide nanoparticles. CrystEngComm, 2017, 19, 6694-6702.	1.3	81
66	Electronic properties of ZrTe <sub>3</sub> . Journal of Materials Chemistry, 1998, 8, 1787-1798.	6.7	80
67	One-Dimensional Hypersonic Phononic Crystals. Nano Letters, 2010, 10, 980-984.	4.5	80
68	Carbon-Coated Anatase TiO <sub>2</sub> Nanotubes for Li- and Na-Ion Anodes. Journal of the Electrochemical Society, 2015, 162, A3013-A3020.	1.3	80
69	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. Chemistry - A European Journal, 2018, 24, 9703-9713.	1.7	80
70	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. Journal of Materials Chemistry, 2010, 20, 8297.	6.7	79
71	Two-Step Nucleation Process of Calcium Silicate Hydrate, the Nanobrick of Cement. Chemistry of Materials, 2018, 30, 2895-2904.	3.2	79
72	Liquid Crystalline Phases from Polymerâ€Functionalized TiO <sub>2</sub> Nanorods. Advanced Materials, 2007, 19, 2073-2078.	11.1	78

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73	Bioorganic/inorganic hybrid composition of sponge spicules: Matrix of the giant spicules and of the comitalia of the deep sea hexactinellid <i>Monorhaphis</i> . <i>Journal of Structural Biology</i> , 2008, 161, 188-203.	1.3	78
74	Biomolecular conjugation inside synthetic polymer nanopores via glycoprotein-lectin interactions. <i>Nanoscale</i> , 2011, 3, 1894.	2.8	78
75	A High-Performance Asymmetric Supercapacitor Based on Tungsten Oxide Nanoplates and Highly Reduced Graphene Oxide Electrodes. <i>Chemistry - A European Journal</i> , 2021, 27, 6973-6984.	1.7	75
76	Transitions between NiAs and MnP type phases: an electronically driven distortion of triangular (36) nets. <i>Journal of the American Chemical Society</i> , 1986, 108, 5174-5187.	6.6	74
77	From Single Molecules to Nanoscopically Structured Functional Materials: Au Nanocrystal Growth on TiO <sub>2</sub> Nanowires Controlled by Surface-Bound Silicatein. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4803-4809.	7.2	74
78	Formation of giant spicules in the deep-sea hexactinellid <i>Monorhaphis chuni</i> (Schulze 1904): electron-microscopic and biochemical studies. <i>Cell and Tissue Research</i> , 2007, 329, 363-378.	1.5	74
79	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7423-7428.	2.9	74
80	<i>Pulicaria glutinosa</i> plant extract: a green and eco-friendly reducing agent for the preparation of highly reduced graphene oxide. <i>RSC Advances</i> , 2014, 4, 24119-24125.	1.7	73
81	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. <i>Advanced Materials</i> , 2018, 30, e1707073.	11.1	73
82	A plasma protein corona enhances the biocompatibility of Au@Fe <sub>3</sub> O <sub>4</sub> Janus particles. <i>Biomaterials</i> , 2015, 68, 77-88.	5.7	72
83	Two-Dimensional Structure of Disulfides and Thiols on Gold(111). <i>Langmuir</i> , 1998, 14, 808-815.	1.6	71
84	Mercaptophenol-Protected Gold Colloids as Nuclei for the Crystallization of Inorganic Minerals: A Templated Crystallization on Curved Surfaces. <i>Chemistry of Materials</i> , 1999, 11, 1317-1325.	3.2	71
85	Fabrication of a Silica Coating on Magnetic <sup>57</sup> Fe <sub>2</sub> O <sub>3</sub> Nanoparticles by an Immobilized Enzyme. <i>Chemistry of Materials</i> , 2008, 20, 3567-3573.	3.2	71
86	Apposition of silica lamellae during growth of spicules in the demosponge <i>Suberites domuncula</i> : Biological/biochemical studies and chemical/biomimetical confirmation. <i>Journal of Structural Biology</i> , 2007, 159, 325-334.	1.3	70
87	Bismuth-Catalyzed Growth of SnS <sub>2</sub> Nanotubes and Their Stability. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6426-6430.	7.2	70
88	Crystallization of Vaterite Nanowires by the Cooperative Interaction of Tailor-Made Nucleation Surfaces and Polyelectrolytes. <i>Advanced Functional Materials</i> , 2005, 15, 683-688.	7.8	69
89	Liquid crystalline phases from polymer functionalised semiconducting nanorods. <i>Journal of Materials Chemistry</i> , 2008, 18, 3050.	6.7	69
90	Metal-Metal Bonding and Metallic Behavior in Some ABO <sub>2</sub> Delafossites. <i>Chemistry of Materials</i> , 1998, 10, 2189-2196.	3.2	68

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91	Magnetic and structural properties of the double-perovskite Ca <sub>2</sub> FeReO <sub>6</sub> . Solid State Communications, 2002, 122, 201-206.	0.9	68
92	Synthesis, Characterization, and Hierarchical Organization of Tungsten Oxide Nanorods: Spreading Driven by Marangoni Flow. Journal of the American Chemical Society, 2009, 131, 17566-17575.	6.6	67
93	Influence of Compensating Defect Formation on the Doping Efficiency and Thermoelectric Properties of Cu <sub>2-y</sub> Se <sup>1+</sup> Br <sub>x</sub> . Chemistry of Materials, 2015, 27, 7018-7027.	3.2	67
94	Synthesis of MoO <sub>3</sub> nanostructures and their facile conversion to MoS <sub>2</sub> fullerenes and nanotubes. Solid State Sciences, 2006, 8, 1133-1137.	1.5	66
95	Nickel-thiolate chemistry based on chelating ligands: controlling the course of self-assembly reactions via ligand bite distances. Synthesis, structures, and properties of the homoleptic complexes [Ni <sub>3</sub> (SCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> S) <sub>4</sub> ] <sub>2</sub> , [Ni <sub>3</sub> (SCH <sub>2</sub> CH <sub>2</sub> S) <sub>4</sub> ] <sub>2</sub> , and [Ni <sub>6</sub> (SCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> S) <sub>7</sub> ] <sub>2</sub> . Inorganic Chemistry, 1988, 27, 3886-3895.	1.9	65
96	High Electron Mobility and Disorder Induced by Silver Ion Migration Lead to Good Thermoelectric Performance in the Argyrodite Ag <sub>8</sub> SiSe <sub>6</sub> . Chemistry of Materials, 2017, 29, 4833-4839.	3.2	65
97	Phase Selection of Calcium Carbonate through the Chirality of Adsorbed Amino Acids. Angewandte Chemie - International Edition, 2007, 46, 5618-5623.	7.2	64
98	Glycine-functionalized copper(II) hydroxide nanoparticles with high intrinsic superoxide dismutase activity. Nanoscale, 2017, 9, 3952-3960.	2.8	64
99	Superparamagnetic <sup>3</sup> Fe <sub>2</sub> O <sub>3</sub> nanoparticles with tailored functionality for protein separation. Chemical Communications, 2007, , 4677.	2.2	63
100	Engineering the Hypersonic Phononic Band Gap of Hybrid Bragg Stacks. Nano Letters, 2012, 12, 3101-3108.	4.5	63
101	A Solvothermal Route to High-Surface-Area Nanostructured MoS <sub>2</sub> . Chemistry of Materials, 2003, 15, 4498-4502.	3.2	62
102	VS <sub>2</sub> Nanotubes Containing Organic-Amine Templates from the NT-VO <sub>x</sub> Precursors and Reversible Copper Intercalation in NT-VS <sub>2</sub> . Angewandte Chemie - International Edition, 2005, 44, 262-265.	7.2	62
103	PAA-PAMPS Copolymers as an Efficient Tool to Control CaCO <sub>3</sub> Scale Formation. Langmuir, 2013, 29, 3080-3088.	1.6	61
104	Inorganic Janus particles for biomedical applications. Beilstein Journal of Nanotechnology, 2014, 5, 2346-2362.	1.5	61
105	Blue light mediated C-H arylation of heteroarenes using TiO <sub>2</sub> as an immobilized photocatalyst in a continuous-flow microreactor. Green Chemistry, 2017, 19, 1911-1918.	4.6	61
106	TiO <sub>2</sub> Nanoparticles Functionalized with Non-innocent Ligands Allow Oxidative Photocyanation of Amines with Visible/Near-Infrared Photons. Journal of the American Chemical Society, 2018, 140, 14169-14177.	6.6	61
107	Inorganic rings, intact and cleaved, between two metal fragments. Journal of the American Chemical Society, 1989, 111, 2030-2039.	6.6	59
108	Multifunctional superparamagnetic MnO@SiO <sub>2</sub> core/shell nanoparticles and their application for optical and magnetic resonance imaging. Journal of Materials Chemistry, 2012, 22, 9253.	6.7	59

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109	CeO <sub>2</sub> nanorods with intrinsic urease-like activity. <i>Nanoscale</i> , 2018, 10, 13074-13082.	2.8	59
110	Pd@Fe <sub>2</sub> O <sub>3</sub> Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. <i>Chemistry of Materials</i> , 2017, 29, 1134-1146.	3.2	58
111	Band convergence in the non-cubic chalcopyrite compounds Cu <sub>2</sub> MGeSe <sub>4</sub> . <i>Journal of Materials Chemistry C</i> , 2014, 2, 10189-10194.	2.7	57
112	Ln <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (Ln = Nd, Pr, Sm): a novel series of defective Ruddlesden-Popper phases. <i>Chemical Communications</i> , 1999, , 979-980.	2.2	56
113	Probing Cooperative Interactions of Tailor-Made Nucleation Surfaces and Macromolecules: A Bioinspired Route to Hollow Micrometer-Sized Calcium Carbonate Particles. <i>Langmuir</i> , 2006, 22, 3073-3080.	1.6	54
114	Bioencapsulation of living bacteria ( <i>Escherichia coli</i> ) with poly(silicate) after transformation with silicatein-1 gene. <i>Biomaterials</i> , 2008, 29, 771-779.	5.7	54
115	Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. <i>Advanced Functional Materials</i> , 2009, 19, 3717-3725.	7.8	54
116	Synthesis and Tribological Performance of Novel Mo <sub>x</sub> W <sub>1-x</sub> S <sub>2</sub> (0 ≤ x ≤ 1) Inorganic Fullerenes. <i>Tribology Letters</i> , 2010, 37, 83-92.	1.2	54
117	A chemists view: Metal oxides with adaptive structures for thermoelectric applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 808-823.	0.8	54
118	Removal of Surface Oxygen Vacancies Increases Conductance Through TiO <sub>2</sub> Thin Films for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13458-13466.	1.5	54
119	Fractal-related assembly of the axial filament in the demosponge <i>Suberites domuncula</i> : Relevance to biomineralization and the formation of biogenic silica. <i>Biomaterials</i> , 2007, 28, 4501-4511.	5.7	53
120	<i>Pulicaria glutinosa</i> Extract: A Toolbox to Synthesize Highly Reduced Graphene Oxide-Silver Nanocomposites. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1131-1142.	1.8	53
121	In Situ Heating TEM Study of Onion-like WS <sub>2</sub> and MoS <sub>2</sub> Nanostructures Obtained via MOCVD. <i>Chemistry of Materials</i> , 2008, 20, 65-71.	3.2	52
122	Enzyme-Mediated Deposition of a TiO <sub>2</sub> Coating onto Biofunctionalized WS <sub>2</sub> Chalcogenide Nanotubes. <i>Advanced Functional Materials</i> , 2009, 19, 285-291.	7.8	52
123	Synthesis of Au, Ag, and Au@Ag Bimetallic Nanoparticles Using <i>Pulicaria undulata</i> Extract and Their Catalytic Activity for the Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , 2020, 10, 1885.	1.9	52
124	Crystallization of Calcite Spherules around Designer Nuclei. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 3044-3047.	7.2	50
125	Green synthesis of Pd@graphene nanocomposite: Catalyst for the selective oxidation of alcohols. <i>Arabian Journal of Chemistry</i> , 2016, 9, 835-845.	2.3	50
126	From Layered Molybdc Acid to Lower-Dimensional Nanostructures by Intercalation of Amines under Ambient Conditions. <i>Chemistry of Materials</i> , 2006, 18, 2144-2151.	3.2	49



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127	Analysis of the axial filament in spicules of the demosponge <i>Geodia cydonium</i> : Different silicatein composition in microscleres (asters) and megascleres (oxeas and triaenes). <i>European Journal of Cell Biology</i> , 2007, 86, 473-487.	1.6	49
128	Cooperative High-Temperature Spin Crossover Accompanied by a Highly Anisotropic Structural Distortion. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3191-3195.	1.0	49
129	dsRNA-Functionalized Multifunctional $\text{Fe}_2\text{O}_3$ Nanocrystals: A Tool for Targeting Cell Surface Receptors. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4748-4752.	7.2	48
130	Alignment of Tellurium Nanorods <i>via</i> a Magnetization-Alignment-Demagnetization ( $\alpha$ MAD) Process Assisted by an External Magnetic Field. <i>ACS Nano</i> , 2009, 3, 1441-1450.	7.3	48
131	Thermoelectric properties of Zn-doped $\text{Ca}_3\text{AlSb}_3$ . <i>Journal of Materials Chemistry</i> , 2012, 22, 9826.	6.7	48
132	Antioxidant activity of cerium dioxide nanoparticles and nanorods in scavenging hydroxyl radicals. <i>RSC Advances</i> , 2019, 9, 11077-11081.	1.7	48
133	Combining Magnetic Field Induced Locomotion and Supramolecular Interaction to Micromanipulate Glass Fibers: Toward Assembly of Complex Structures at Mesoscale. <i>Langmuir</i> , 2011, 27, 6559-6564.	1.6	47
134	Monothiol-derived glycols as agents for stabilizing gold colloids in water: synthesis, self-assembly and use as crystallization templates. <i>Journal of Materials Chemistry</i> , 1999, 9, 1121-1125.	6.7	46
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