

Markus Niederberger

List of Publications by Year in descending order

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252
papers

20,119
citations

8159

76
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12233

133
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283
all docs

283
docs citations

283
times ranked

20647
citing authors

#	ARTICLE	IF	CITATIONS
1	Oriented attachment and mesocrystals: Non-classical crystallization mechanisms based on nanoparticle assembly. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3271-3287.	1.3	1,023
2	Microwave chemistry for inorganic nanomaterials synthesis. <i>Nanoscale</i> , 2010, 2, 1358.	2.8	985
3	Nonaqueous Sol-Gel Routes to Metal Oxide Nanoparticles. <i>Accounts of Chemical Research</i> , 2007, 40, 793-800.	7.6	646
4	Organic Reaction Pathways in the Nonaqueous Synthesis of Metal Oxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2006, 12, 7282-7302.	1.7	439
5	Surfactant-Free Nonaqueous Synthesis of Metal Oxide Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5292-5304.	7.2	437
6	Morphology and Topochemical Reactions of Novel Vanadium Oxide Nanotubes. <i>Journal of the American Chemical Society</i> , 1999, 121, 8324-8331.	6.6	432
7	Benzyl Alcohol and Titanium Tetrachloride A Versatile Reaction System for the Nonaqueous and Low-Temperature Preparation of Crystalline and Luminescent Titania Nanoparticles. <i>Chemistry of Materials</i> , 2002, 14, 4364-4370.	3.2	396
8	Organic Cathode for Aqueous Zn-Ion Batteries: Taming a Unique Phase Evolution toward Stable Electrochemical Cycling. <i>Chemistry of Materials</i> , 2018, 30, 3874-3881.	3.2	373
9	Magnetite Nanocrystals: Nonaqueous Synthesis, Characterization, and Solubility. <i>Chemistry of Materials</i> , 2005, 17, 3044-3049.	3.2	341
10	Benzyl Alcohol and Transition Metal Chlorides as a Versatile Reaction System for the Nonaqueous and Low-Temperature Synthesis of Crystalline Nano-Objects with Controlled Dimensionality. <i>Journal of the American Chemical Society</i> , 2002, 124, 13642-13643.	6.6	336
11	Template-Free Synthesis and Assembly of Single-Crystalline Tungsten Oxide Nanowires and their Gas-Sensing Properties. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 261-265.	7.2	325
12	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4345-4349.	7.2	313
13	The fascinating world of nanoparticle research. <i>Materials Today</i> , 2013, 16, 262-271.	8.3	302
14	One-minute synthesis of crystalline binary and ternary metal oxide nanoparticles. <i>Chemical Communications</i> , 2008, , 886-888.	2.2	295
15	A General Soft-Chemistry Route to Perovskites and Related Materials: Synthesis of BaTiO ₃ , BaZrO ₃ , and LiNbO ₃ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2270-2273.	7.2	270
16	Nonaqueous and Halide-Free Route to Crystalline BaTiO ₃ , SrTiO ₃ , and (Ba,Sr)TiO ₃ Nanoparticles via a Mechanism Involving C-C Bond Formation. <i>Journal of the American Chemical Society</i> , 2004, 126, 9120-9126.	6.6	265
17	Non-aqueous Synthesis of Tin Oxide Nanocrystals and Their Assembly into Ordered Porous Mesostructures. <i>Advanced Materials</i> , 2005, 17, 2509-2512.	11.1	264
18	Ligand-Directed Assembly of Preformed Titania Nanocrystals into Highly Anisotropic Nanostructures. <i>Advanced Materials</i> , 2004, 16, 436-439.	11.1	255

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19	Vanadium Oxide Nanotubes—A New Flexible Vanadate Nanophase. <i>Advanced Materials</i> , 2000, 12, 231-234.	11.1	251
20	Low-Cost Synthesis of Vanadium Oxide Nanotubes via Two Novel Non-Alkoxide Routes. <i>Chemistry of Materials</i> , 2000, 12, 1995-2000.	3.2	240
21	Tailoring the Surface and Solubility Properties of Nanocrystalline Titania by a Nonaqueous In Situ Functionalization Process. <i>Chemistry of Materials</i> , 2004, 16, 1202-1208.	3.2	223
22	Growth and Assembly of Crystalline Tungsten Oxide Nanostructures Assisted by Biologation. <i>Journal of the American Chemical Society</i> , 2005, 127, 15595-15601.	6.6	213
23	Metal Oxide Nanoparticles in Organic Solvents. <i>Engineering Materials and Processes</i> , 2009, , .	0.2	212
24	A General Nonaqueous Route to Binary Metal Oxide Nanocrystals Involving a C—C Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2005, 127, 5608-5612.	6.6	209
25	Kinetic and Thermodynamic Aspects in the Microwave-Assisted Synthesis of ZnO Nanoparticles in Benzyl Alcohol. <i>ACS Nano</i> , 2009, 3, 467-477.	7.3	206
26	Large-scale Synthesis of Organophilic Zirconia Nanoparticles and their Application in Organic-Inorganic Nanocomposites for Efficient Volume Holography. <i>Small</i> , 2007, 3, 1626-1632.	5.2	175
27	Zinc oxide nanoparticles: chemical mechanisms and classical and non-classical crystallization. <i>Dalton Transactions</i> , 2013, 42, 12554.	1.6	167
28	Non-Aqueous Synthesis of High-Purity Metal Oxide Nanopowders Using an Ether Elimination Process. <i>Advanced Materials</i> , 2004, 16, 2196-2200.	11.1	157
29	Nonaqueous Synthesis of Uniform Indium Tin Oxide Nanocrystals and Their Electrical Conductivity in Dependence of the Tin Oxide Concentration. <i>Chemistry of Materials</i> , 2006, 18, 2848-2854.	3.2	157
30	What do you do, titanium? Insight into the role of titanium oxide as a water oxidation promoter in hematite-based photoanodes. <i>Energy and Environmental Science</i> , 2015, 8, 3242-3254.	15.6	147
31	Highly Conducting Nanosized Monodispersed Antimony-Doped Tin Oxide Particles Synthesized via Nonaqueous Sol-Gel Procedure. <i>Chemistry of Materials</i> , 2009, 21, 5229-5236.	3.2	143
32	Non-aqueous routes to crystalline metal oxide nanoparticles: Formation mechanisms and applications. <i>Progress in Solid State Chemistry</i> , 2005, 33, 59-70.	3.9	140
33	Nonaqueous synthesis of metal oxide nanoparticles: Review and indium oxide as case study for the dependence of particle morphology on precursors and solvents. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 259-266.	1.1	136
34	Nonaqueous and Surfactant-Free Synthesis Routes to Metal Oxide Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1801-1808.	1.9	134
35	Ligand Functionality as a Versatile Tool to Control the Assembly Behavior of Preformed Titania Nanocrystals. <i>Chemistry - A European Journal</i> , 2005, 11, 3541-3551.	1.7	133
36	Steam reforming of methanol over Cu/ZrO/CeO catalysts: a kinetic study. <i>Journal of Catalysis</i> , 2005, 230, 464-475.	3.1	131

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37	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. ACS Nano, 2018, 12, 2753-2763.	7.3	129
38	Co-Doped ZnO nanoparticles: Minireview. Nanoscale, 2010, 2, 1096.	2.8	124
39	Nonaqueous Sol-Gel Synthesis of a Nanocrystalline InNbO ₄ Visible-Light Photocatalyst. Advanced Materials, 2007, 19, 2083-2086.	11.1	123
40	Nonaqueous Synthesis of Manganese Oxide Nanoparticles, Structural Characterization, and Magnetic Properties. Journal of Physical Chemistry C, 2007, 111, 3614-3623.	1.5	120
41	Synthesis and Characterization of Stable and Crystalline Ce _{1-x} Zr _x O ₂ Nanoparticle Sols. Chemistry of Materials, 2004, 16, 2599-2604.	3.2	119
42	Organic chemistry in inorganic nanomaterials synthesis. Journal of Materials Chemistry, 2008, 18, 1171-1182.	6.7	119
43	Synthesis of Yttria-Based Crystalline and Lamellar Nanostructures and their Formation Mechanism. Small, 2004, 1, 112-121.	5.2	118
44	A General Method of Fabricating Flexible Spinel-Type Oxide/Reduced Graphene Oxide Nanocomposite Aerogels as Advanced Anodes for Lithium-Ion Batteries. ACS Nano, 2015, 9, 4227-4235.	7.3	118
45	Dispersion Behavior of Zirconia Nanocrystals and Their Surface Functionalization with Vinyl Group-Containing Ligands. Langmuir, 2007, 23, 9178-9187.	1.6	117
46	Probing Solvent-Ligand Interactions in Colloidal Nanocrystals by the NMR Line Broadening. Chemistry of Materials, 2018, 30, 5485-5492.	3.2	117
47	Thermal Transformation of Metal Oxide Nanoparticles into Nanocrystalline Metal Nitrides Using Cyanamide and Urea as Nitrogen Source. Chemistry of Materials, 2007, 19, 3499-3505.	3.2	115
48	Synthesis of aerogels: from molecular routes to 3-dimensional nanoparticle assembly. Nanoscale Horizons, 2017, 2, 6-30.	4.1	113
49	From colloidal dispersions to aerogels: How to master nanoparticle gelation. Nano Today, 2020, 30, 100827.	6.2	113
50	Diluted magnetic semiconductors: Mn/Co-doped ZnO nanorods as case study. Journal of Materials Chemistry, 2008, 18, 5208.	6.7	112
51	25th Anniversary Article: Metal Oxide Particles in Materials Science: Addressing All Length Scales. Advanced Materials, 2014, 26, 235-257.	11.1	112
52	Microwave-Assisted Nonaqueous Sol-Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 1484-1495.	1.5	111
53	Nonaqueous TiO ₂ Nanoparticle Synthesis: a Versatile Basis for the Fabrication of Self-Supporting, Transparent, and UV-Absorbing Composite Films. ACS Applied Materials & Interfaces, 2009, 1, 1097-1104.	4.0	109
54	Large-Area Alignment of Tungsten Oxide Nanowires over Flat and Patterned Substrates for Room-Temperature Gas Sensing. Angewandte Chemie - International Edition, 2015, 54, 340-344.	7.2	105

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55	Synthesis and characterization of novel nanoscopic molybdenum oxide fibers. <i>Journal of Materials Chemistry</i> , 2001, 11, 1941-1945.	6.7	102
56	Fully Integrated Design of a Stretchable Solid-State Lithium-Ion Full Battery. <i>Advanced Materials</i> , 2019, 31, e1904648.	11.1	102
57	In situ investigations of structure-activity relationships of a Cu/ZrO ₂ catalyst for the steam reforming of methanol. <i>Journal of Catalysis</i> , 2005, 233, 297-307.	3.1	98
58	Atomic-Scale Structure of Nanocrystalline Ba _x Sr _{1-x} TiO ₃ (x = 1, 0.5, 0) by X-ray Diffraction and the Atomic Pair Distribution Function Technique. <i>Chemistry of Materials</i> , 2006, 18, 814-821.	3.2	96
59	Probing Local Dipoles and Ligand Structure in BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 4386-4391.	3.2	96
60	Controlled Assembly of Preformed Ceria Nanocrystals into Highly Ordered 3D Nanostructures. <i>Small</i> , 2005, 1, 313-316.	5.2	95
61	Nonaqueous synthesis of metal oxide nanoparticles: Short review and doped titanium dioxide as case study for the preparation of transition metal-doped oxide nanoparticles. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1571-1581.	1.4	94
62	A Highly Sensitive and Fast-Responding Ethanol Sensor Based on CdIn ₂ O ₄ Nanocrystals Synthesized by a Nonaqueous Sol-Gel Route. <i>Chemistry of Materials</i> , 2008, 20, 5781-5786.	3.2	93
63	Facile synthesis of monodisperse Co ₃ O ₄ quantum dots with efficient oxygen evolution activity. <i>Chemical Communications</i> , 2015, 51, 1338-1340.	2.2	93
64	Mechanistic Aspects in the Formation, Growth and Surface Functionalization of Metal Oxide Nanoparticles in Organic Solvents. <i>Chemistry - A European Journal</i> , 2017, 23, 8542-8570.	1.7	90
65	In ₂ O ₃ and Pt-In ₂ O ₃ nanopowders for low temperature oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 455-462.	4.0	89
66	An Iron Polyolate Complex as a Precursor for the Controlled Synthesis of Monodispersed Iron Oxide Colloids. <i>Chemistry of Materials</i> , 2002, 14, 78-82.	3.2	88
67	Neodymium Dioxide Carbonate as a Sensing Layer for Chemoresistive CO ₂ Sensing. <i>Chemistry of Materials</i> , 2009, 21, 5375-5381.	3.2	88
68	Interplay Between Size and Crystal Structure of Molybdenum Dioxide Nanoparticles—Synthesis, Growth Mechanism, and Electrochemical Performance. <i>Small</i> , 2011, 7, 377-387.	5.2	85
69	When Nanoparticles Meet Poly(Ionic Liquid)s: Chemoresistive CO ₂ Sensing at Room Temperature. <i>Advanced Functional Materials</i> , 2015, 25, 2537-2542.	7.8	85
70	Multifunctional Role of Rare Earth Doping in Optical Materials: Nonaqueous Sol-Gel Synthesis of Stabilized Cubic HfO ₂ Luminescent Nanoparticles. <i>ACS Nano</i> , 2013, 7, 7041-7052.	7.3	84
71	Three-Dimensional Assembly of Yttrium Oxide Nanosheets into Luminescent Aerogel Monoliths with Outstanding Adsorption Properties. <i>ACS Nano</i> , 2016, 10, 2467-2475.	7.3	84
72	A novel nonaqueous route to V ₂ O ₃ and Nb ₂ O ₅ nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 211-213.	2.3	82

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73	Nonaqueous synthesis of crystalline anatase nanoparticles in simple ketones and aldehydes as oxygen-supplying agents. <i>Chemical Communications</i> , 2005, , 397.	2.2	81
74	Effect of the chemical composition on the sensing properties of In ₂ O ₃ @SnO ₂ nanoparticles synthesized by a non-aqueous method. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 222-230.	4.0	81
75	Efficient microwave-assisted synthesis of LiFePO ₄ mesocrystals with high cycling stability. <i>Journal of Materials Chemistry</i> , 2009, 19, 5125.	6.7	80
76	Understanding the Charge Storage Mechanism to Achieve High Capacity and Fast Ion Storage in Sodium-Ion Capacitor Anodes by Using Electrospun Nitrogen-Doped Carbon Fibers. <i>Advanced Functional Materials</i> , 2019, 29, 1902858.	7.8	79
77	Anisotropic Crystal Growth Kinetics of Anatase TiO ₂ Nanoparticles Synthesized in a Nonaqueous Medium. <i>Chemistry of Materials</i> , 2010, 22, 6044-6055.	3.2	77
78	Template-free co-assembly of preformed Au and TiO ₂ nanoparticles into multicomponent 3D aerogels. <i>Journal of Materials Chemistry</i> , 2011, 21, 16893.	6.7	77
79	Morphology-controlled nonaqueous synthesis of anisotropic lanthanum hydroxide nanoparticles. <i>Journal of Solid State Chemistry</i> , 2007, 180, 2154-2165.	1.4	76
80	Microwave-assisted solution synthesis of doped LiFePO ₄ with high specific charge and outstanding cycling performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 5881.	6.7	76
81	New developments in the nonaqueous and/or non-hydrolytic sol-gel synthesis of inorganic nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 7717-7725.	2.6	74
82	Photocatalytic Gas Phase Reactions. <i>Chemistry of Materials</i> , 2019, 31, 597-618.	3.2	74
83	Fast Na-Ion Intercalation in Zinc Vanadate for High-Performance Na-Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802800.	10.2	72
84	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In ₂ O ₃ nanocrystals. <i>Chemical Communications</i> , 2005, , 6032.	2.2	71
85	A Micromolding Method for Transparent and Flexible Thin-Film Supercapacitors and Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2004410.	7.8	70
86	Controlled fabrication of porous metals from the nanometer to the macroscopic scale. <i>Materials Horizons</i> , 2015, 2, 359-377.	6.4	69
87	Amorphous cobalt silicate nanobelts@carbon composites as a stable anode material for lithium ion batteries. <i>Chemical Science</i> , 2015, 6, 6908-6915.	3.7	69
88	Preparation of Ligand-Free TiO ₂ (Anatase) Nanoparticles through a Nonaqueous Process and Their Surface Functionalization. <i>Langmuir</i> , 2008, 24, 6988-6997.	1.6	68
89	Simultaneous formation of ferrite nanocrystals and deposition of thin films via a microwave-assisted nonaqueous sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 313-322.	1.1	68
90	CoFe ₂ O ₄ and CoFe ₂ O ₄ @SiO ₂ Nanoparticle Thin Films with Perpendicular Magnetic Anisotropy for Magnetic and Magneto-Optical Applications. <i>Advanced Functional Materials</i> , 2016, 26, 1954-1963.	7.8	68

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91	Self-Assembly of Metal and Metal Oxide Nanoparticles and Nanowires into a Macroscopic Ternary Aerogel Monolith with Tailored Photocatalytic Properties. <i>Chemistry of Materials</i> , 2014, 26, 5576-5584.	3.2	67
92	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , 2013, 61, 404-411.	5.4	62
93	Ligand and solvent effects in the nonaqueous synthesis of highly ordered anisotropic tungsten oxide nanostructures. <i>Journal of Materials Chemistry</i> , 2006, 16, 3969.	6.7	61
94	Solvothermal and surfactant-free synthesis of crystalline Nb ₂ O ₅ , Ta ₂ O ₅ , HfO ₂ , and Co-doped HfO ₂ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15537.	1.3	61
95	High-Quality Transparent Electrodes Spin-Cast from Preformed Antimony-Doped Tin Oxide Nanocrystals for Thin Film Optoelectronics. <i>Chemistry of Materials</i> , 2013, 25, 4901-4907.	3.2	61
96	Influence of carbon enrichment on electrical conductivity and processing of polycarbosilane derived ceramic for MEMS applications. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3559-3570.	2.8	61
97	Translucent nanoparticle-based aerogel monoliths as 3-dimensional photocatalysts for the selective photoreduction of CO ₂ to methanol in a continuous flow reactor. <i>Materials Horizons</i> , 2017, 4, 1115-1121.	6.4	61
98	Nonaqueous Synthesis of Nanocrystalline Indium Oxide and Zinc Oxide in the Oxygen-Free Solvent Acetonitrile. <i>Crystal Growth and Design</i> , 2007, 7, 113-116.	1.4	60
99	Transparent Conducting Films of Antimony-Doped Tin Oxide with Uniform Mesostructure Assembled from Preformed Nanocrystals. <i>Small</i> , 2010, 6, 633-637.	5.2	59
100	Assembly of BaTiO ₃ Nanocrystals into Macroscopic Aerogel Monoliths with High Surface Area. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6823-6826.	7.2	58
101	Ultrasml Cu ₃ N Nanoparticles: Surfactant-Free Solution-Phase Synthesis, Nitridation Mechanism, and Application for Lithium Storage. <i>Chemistry of Materials</i> , 2015, 27, 8282-8288.	3.2	58
102	Monolithic metal-containing TiO ₂ aerogels assembled from crystalline pre-formed nanoparticles as efficient photocatalysts for H ₂ generation. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118660.	10.8	57
103	Multiscale Nanoparticle Assembly: From Particulate Precise Manufacturing to Colloidal Processing. <i>Advanced Functional Materials</i> , 2017, 27, 1703647.	7.8	56
104	Low-Temperature Synthesis of γ -Alumina Nanocrystals from Aluminum Acetylacetonate in Nonaqueous Media. <i>Small</i> , 2007, 3, 763-767.	5.2	54
105	Microwave-Assisted Nonaqueous Sol-Gel Synthesis: From Al:ZnO Nanoparticles to Transparent Conducting Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 152-160.	3.2	54
106	Size-Dependent Luminescence in HfO ₂ Nanocrystals: Toward White Emission from Intrinsic Surface Defects. <i>Chemistry of Materials</i> , 2016, 28, 3245-3253.	3.2	54
107	Mechanistic aspects of molecular formation and crystallization of zinc oxide nanoparticles in benzyl alcohol. <i>Nanoscale</i> , 2012, 4, 1982-1995.	2.8	53
108	Liquid-Phase Deposition of Freestanding Copper Foils and Supported Copper Thin Films and Their Structuring into Conducting Line Patterns. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4743-4746.	7.2	53

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109	Nonaqueous synthesis, assembly and formation mechanisms of metal oxide nanocrystals. <i>International Journal of Nanotechnology</i> , 2007, 4, 263.	0.1	52
110	Self-assembly in inorganic and hybrid systems: beyond the molecular scale. <i>Dalton Transactions</i> , 2008, , 18-24.	1.6	52
111	Improved Nonaqueous Synthesis of TiO ₂ for Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 8981-8989.	7.3	52
112	Nonaqueous Synthesis of Amorphous Powder Precursors for Nanocrystalline PbTiO ₃ , Pb(Zr,Ti)O ₃ , and PbZrO ₃ . <i>Chemistry of Materials</i> , 2005, 17, 4594-4599.	3.2	51
113	Nanoparticle-Based Magnetoelectric BaTiO ₃ â€“CoFe ₂ O ₄ Thin Film Heterostructures for Voltage Control of Magnetism. <i>ACS Nano</i> , 2016, 10, 9840-9851.	7.3	48
114	Hydrogel-derived foams of nitrogen-doped carbon loaded with Sn nanodots for high-mass-loading Na-ion storage. <i>Energy Storage Materials</i> , 2019, 16, 519-526.	9.5	47
115	Towards enhanced performances in gas sensing: SnO ₂ based nanocrystalline oxides application. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 564-571.	4.0	46
116	Microwave-assisted nonaqueous synthesis of WO ₃ nanoparticles for crystallographically oriented photoanodes for water splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20530-20537.	5.2	46
117	Nonaqueous Synthesis of Colloidal ZnGa ₂ O ₄ Nanocrystals and Their Photoluminescence Properties. <i>Chemistry of Materials</i> , 2007, 19, 5830-5832.	3.2	45
118	Crystallization of Indium Tin Oxide Nanoparticles: From Cooperative Behavior to Individuality. <i>Small</i> , 2007, 3, 310-317.	5.2	45
119	Black Titania with Nanoscale Helicity. <i>Advanced Functional Materials</i> , 2019, 29, 1904639.	7.8	45
120	Multifunctional Batteries: Flexible, Transient, and Transparent. <i>ACS Central Science</i> , 2021, 7, 231-244.	5.3	45
121	Titania-Cellulose Hybrid Monolith for In-Flow Purification of Water under Solar Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29599-29607.	4.0	44
122	Towards fast-charging technologies in Li ⁺ /Na ⁺ storage: from the perspectives of pseudocapacitive materials and non-aqueous hybrid capacitors. <i>Nanoscale</i> , 2019, 11, 19225-19240.	2.8	44
123	Degradation Behavior, Biocompatibility, Electrochemical Performance, and Circularity Potential of Transient Batteries. <i>Advanced Science</i> , 2021, 8, 2004814.	5.6	44
124	Assembly of antimony doped tin oxide nanocrystals into conducting macroscopic aerogel monoliths. <i>Chemical Communications</i> , 2014, 50, 13138-13141.	2.2	43
125	Tailoring Two Polymorphs of LiFePO ₄ by Efficient Microwave-Assisted Synthesis: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2013, 25, 3399-3407.	3.2	40
126	Oxygen Self-Doping in Hollandite-Type Vanadium Oxyhydroxide Nanorods. <i>Journal of the American Chemical Society</i> , 2008, 130, 11364-11375.	6.6	39

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127	The Cross-Sectional Structure of Vanadium Oxide Nanotubes Studied by Transmission Electron Microscopy and Electron Spectroscopic Imaging. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2000, 626, 2208-2216.	0.6	37
128	Generalized Nonaqueous Solâ€“Gel Synthesis of Different Transitionâ€“Metal Niobate Nanocrystals and Analysis of the Growth Mechanism. <i>Chemistry - an Asian Journal</i> , 2008, 3, 746-752.	1.7	37
129	Anataseâ€“silica composite aerogels: a nanoparticle-based approach. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 300-306.	1.1	37
130	Anisotropically structured magnetic aerogel monoliths. <i>Nanoscale</i> , 2014, 6, 13213-13221.	2.8	37
131	Evaporation-Induced Self-Assembly of Ultrathin Tungsten Oxide Nanowires over a Large Scale for Ultraviolet Photodetector. <i>Langmuir</i> , 2016, 32, 2474-2481.	1.6	37
132	Structural Characterization of a Nanocrystalline Inorganicâ€“Organic Hybrid with Fiberlike Morphology and One-Dimensional Antiferromagnetic Properties. <i>Chemistry of Materials</i> , 2009, 21, 3356-3369.	3.2	36
133	Transient Rechargeable Battery with a High Lithium Transport Number Cellulosic Separator. <i>Advanced Functional Materials</i> , 2021, 31, 2101827.	7.8	36
134	Extension of the benzyl alcohol route to metal sulfides: â€œnonhydrolyticâ€“thio solâ€“gel synthesis of ZnS and SnS ₂ . <i>Chemical Communications</i> , 2011, 47, 5280.	2.2	35
135	Hierarchical Nanocelluloseâ€“Based Gel Polymer Electrolytes for Stable Na Electrodeposition in Sodium Ion Batteries. <i>Small</i> , 2022, 18, e2107183.	5.2	35
136	Design of vanadium oxide coreâ€“shell nanoplatelets for lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2861-2868.	5.2	34
137	Homoconjugation in poly(phenylene methylene): A case study of non- π -conjugated polymers with unexpected fluorescent properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 707-720.	2.4	34
138	The Role of Interfaces in Heterostructures. <i>ChemPlusChem</i> , 2017, 82, 42-59.	1.3	33
139	Direct Imaging of Dopant Clustering in Metalâ€“Oxide Nanoparticles. <i>ACS Nano</i> , 2012, 6, 7077-7083.	7.3	32
140	Subpicosecond to Second Time-Scale Charge Carrier Kinetics in Hematiteâ€“Titania Nanocomposite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2859-2864.	2.1	31
141	From 1D to 3D â€“ macroscopic nanowire aerogel monoliths. <i>Nanoscale</i> , 2016, 8, 14074-14077.	2.8	31
142	Synthesis of mesoporous ceria zirconia beads. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 413-418.	2.2	29
143	Benzylamines as Versatile Agents for the Oneâ€“Pot Synthesis and Highly Ordered Stacking of Anatase Nanoplatelets. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 890-895.	1.0	29
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