

Markus Niederberger

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254
papers

17,324
citations

71
h-index

125
g-index

283
ext. papers

18,611
ext. citations

8.7
avg, IF

7.14
L-index

#	Paper	IF	Citations
254	Hierarchical Nanocellulose-Based Gel Polymer Electrolytes for Stable Na Electrodeposition in Sodium Ion Batteries.. <i>Small</i> , 2022 , e2107183	11	2
253	The Importance of the Macroscopic Geometry in Gas-Phase Photocatalysis.. <i>Advanced Science</i> , 2022 , e2105363	10.5	4
252	Beyond conventional sodium-ion storage mechanisms: a combinational intercalation/conversion reaction mechanism in Ni-ion modified hydrated vanadate for high-rate sodium-ion storage. <i>Energy Storage Materials</i> , 2022 , 47, 579-590	19.4	0
251	Gas-Phase Nitrogen Doping of Monolithic TiO Nanoparticle-Based Aerogels for Efficient Visible Light-Driven Photocatalytic H Production. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53691-53701	9.5	6
250	Synthesis of CuN and CuN-CuO multicomponent mesocrystals: non-classical crystallization and nanoscale Kirkendall effect. <i>Nanoscale</i> , 2021 , 13, 17521-17529	7.7	1
249	3D Printed Scaffolds for Monolithic Aerogel Photocatalysts with Complex Geometries. <i>Small</i> , 2021 , 17, e2104089	11	6
248	Stable Na Electrodeposition Enabled by Agarose-Based Water-Soluble Sodium Ion Battery Separators. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21250-21260	9.5	7
247	Design and Fabrication of Transparent and Stretchable Zinc Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6166-6179	6.1	7
246	Degradation Behavior, Biocompatibility, Electrochemical Performance, and Circularity Potential of Transient Batteries. <i>Advanced Science</i> , 2021 , 8, 2004814	13.6	15
245	Colloidal Nanocrystals: A Toolbox for Materials Chemistry. <i>Chimia</i> , 2021 , 75, 387-397	1.3	3
244	Transient Rechargeable Battery with a High Lithium Transport Number Cellulosic Separator. <i>Advanced Functional Materials</i> , 2021 , 31, 2101827	15.6	10
243	A microwave-based one-pot process for homogeneous surface coating: improved electrochemical performance of Li(Ni _{1/3} Mn _{1/3} Co _{1/3})O ₂ with a nano-scaled ZnO:Al layer. <i>Nano Select</i> , 2021 , 2, 146-157	3.1	
242	Controlled Impurity Admixture: From Doped Systems to Composites 2021 , 151-183		
241	Multifunctional Batteries: Flexible, Transient, and Transparent. <i>ACS Central Science</i> , 2021 , 7, 231-244	16.8	19
240	Porous Silica Microspheres with Immobilized Titania Nanoparticles for In-Flow Solar-Driven Purification of Wastewater. <i>Global Challenges</i> , 2021 , 5, 2000116	4.3	6
239	Adapting the concepts of nonaqueous sol-gel chemistry to metals: synthesis and formation mechanism of palladium and palladium-copper nanoparticles in benzyl alcohol. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 95, 573-586	2.3	4
238	A Sodium-Ion Battery Separator with Reversible Voltage Response Based on Water-Soluble Cellulose Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29264-29274	9.5	10

237	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	21.8	32
236	SnS/N-Doped carbon composites with enhanced Li ⁺ storage and lifetime by controlled hierarchical submicron- and nano-structuring. <i>CrystEngComm</i> , 2020 , 22, 1547-1554	3.3	9
235	From colloidal dispersions to aerogels: How to master nanoparticle gelation. <i>Nano Today</i> , 2020 , 30, 100827.9	27.9	56
234	The Bright X-Ray Stimulated Luminescence of HfO ₂ Nanocrystals Activated by Ti Ions. <i>Advanced Optical Materials</i> , 2020 , 8, 1901348	8.1	3
233	Layered hydrotalcite derived holey porous cobalt oxide nanosheets coated with nitrogen-doped carbon for high-mass-loading Li-ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 26150-26157	13	10
232	A Micromolding Method for Transparent and Flexible Thin-Film Supercapacitors and Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004410	15.6	31
231	Poly(phenylene methylene)-Based Coatings for Corrosion Protection: Replacement of Additives by Use of Copolymers. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3551	2.6	5
230	Layered cobalt hydrotalcite as an advanced lithium-ion anode material with high capacity and rate capability. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21264-21269	13	3
229	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	15.6	54
228	Electroless plating of platinum nanoparticles onto mesoporous cellulose films for catalytically active free-standing materials. <i>Cellulose</i> , 2019 , 26, 5513-5527	5.5	16
227	Self-Assembly Route to TiO ₂ and TiC with a Liquid Crystalline Order. <i>Chemistry of Materials</i> , 2019 , 31, 2174-2181	9.6	20
226	Processing of the Multifunctional Polymer Poly(phenylene methylene) into Fibers, Films, Foams, and Microspheres. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800752	3.9	4
225	Black Titania with Nanoscale Helicity. <i>Advanced Functional Materials</i> , 2019 , 29, 1904639	15.6	32
224	Structurally disordered Ta ₂ O ₅ aerogel for high-rate and highly stable Li-ion and Na-ion storage through surface redox pseudocapacitance. <i>Electrochimica Acta</i> , 2019 , 321, 134645	6.7	18
223	Composites of Copper Nanowires in Polyethylene: Preparation and Processing to Materials with NIR Dichroism. <i>ACS Omega</i> , 2019 , 4, 11223-11228	3.9	1
222	Layered metal vanadates with different interlayer cations for high-rate Na-ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16109-16116	13	14
221	Fully Integrated Design of a Stretchable Solid-State Lithium-Ion Full Battery. <i>Advanced Materials</i> , 2019 , 31, e1904648	24	68
220	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	7.7	21

219	An advanced cathode material for high-power Li-ion storage full cells with a long lifespan. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22444-22452	13	1
218	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	19.4	31
217	Photocatalytic Gas Phase Reactions. <i>Chemistry of Materials</i> , 2019 , 31, 597-618	9.6	50
216	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , 2018 , 12, 2753-2763	16.7	97
215	Demonstration of cellular imaging by using luminescent and anti-cytotoxic europium-doped hafnia nanocrystals. <i>Nanoscale</i> , 2018 , 10, 7933-7940	7.7	16
214	Titania-Cellulose Hybrid Monolith for In-Flow Purification of Water under Solar Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29599-29607	9.5	35
213	Probing Solvent-Ligand Interactions in Colloidal Nanocrystals by the NMR Line Broadening. <i>Chemistry of Materials</i> , 2018 , 30, 5485-5492	9.6	72
212	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	9.6	236
211	Synthesis of High Molar Mass Poly(phenylene methylene) Catalyzed by Tungsten(II) Compounds. <i>Polymers</i> , 2018 , 10,	4.5	4
210	Synthesis and fractionation of poly(phenylene methylene). <i>Journal of Polymer Science Part A</i> , 2018 , 56, 309-318	2.5	10
209	Freezing of Gelled Suspensions: a Facile Route toward Mesoporous TiO ₂ Particles for High-Capacity Lithium-Ion Electrodes. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6622-6629	5.6	4
208	Poly(Phenylene Methylene): A Multifunctional Material for Thermally Stable, Hydrophobic, Fluorescent, Corrosion-Protective Coatings. <i>Coatings</i> , 2018 , 8, 274	2.9	5
207	Fast Na-Ion Intercalation in Zinc Vanadate for High-Performance Na-Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2018 , 8, 1802800	21.8	52
206	Surface energy-driven ex situ hierarchical assembly of low-dimensional nanomaterials on graphene aerogels: a versatile strategy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18551-18560	13	9
205	Synthesis, Spray Deposition, and Hot-Press Transfer of Copper Nanowires for Flexible Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20748-20754	9.5	20
204	Radio-luminescence spectral features and fast emission in hafnium dioxide nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15907-15915	3.6	4
203	Homoconjugation in poly(phenylene methylene)s: 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	2.6	17
202	Synthesis of a rare-earth doped hafnia hydrosol: Towards injectable luminescent nanocolloids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 154, 21-26	6	12

201	Doping of TiO ₂ as a tool to optimize the water splitting efficiencies of titania/hematite photoanodes. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 199-206	5.8	13
200	Processing of Cr doped SrTiO ₃ nanoparticles into high surface area aerogels and thin films. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1662-1667	7.8	6
199	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	4.8	65
198	Tailoring the phase of LiAlO ₄ nanoparticles by nonaqueous sol-gel chemistry. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 82, 739-747	2.3	0
197	The Role of Interfaces in Heterostructures. <i>ChemPlusChem</i> , 2017 , 82, 42-59	2.8	23
196	Colloidal Nanocrystal-Based BaTiO ₃ Xerogels as Green Bodies: Effect of Drying and Sintering at Low Temperatures on Pore Structure and Microstructures. <i>Langmuir</i> , 2017 , 33, 280-287	4	12
195	Multiscale Nanoparticle Assembly: From Particulate Precise Manufacturing to Colloidal Processing. <i>Advanced Functional Materials</i> , 2017 , 27, 1703647	15.6	47
194	Polymers with Exceptional Photoluminescence by Homoconjugation. <i>Chimia</i> , 2017 , 71, 733-733	1.3	4
193	Multicomposite Nanostructured Hematite-Titania Photoanodes with Improved Oxygen Evolution: The Role of the Oxygen Evolution Catalyst. <i>ACS Omega</i> , 2017 , 2, 4531-4539	3.9	13
192	Nonaqueous Sol-Gel Synthesis of Anatase Nanoparticles and Their Electrophoretic Deposition in Porous Alumina. <i>Langmuir</i> , 2017 , 33, 12404-12418	4	14
191	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	14.4	42
190	Reply to Comment on "Commercially Available WO Nanopowders for Photoelectrochemical Water Splitting: Photocurrent versus Oxygen Evolution". <i>ChemPlusChem</i> , 2017 , 82, 1169	2.8	
189	Nonaqueous sol-gel synthesis of InTaO ₄ nanoparticles and their assembly into macroscopic aerogels. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4483-4490	3.8	3
188	Synthesis and Formation Mechanism of Multicomponent Sb ₂ S ₃ :TiO ₂ Mesocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 10113-10121	9.6	8
187	Synthesis of aerogels: from molecular routes to 3-dimensional nanoparticle assembly. <i>Nanoscale Horizons</i> , 2017 , 2, 6-30	10.8	83
186	Strategies to improve the electrical conductivity of nanoparticle-based antimony-doped tin oxide aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 80, 660-666	2.3	10
185	Commercially Available WO Nanopowders for Photoelectrochemical Water Splitting: Photocurrent versus Oxygen Evolution. <i>ChemPlusChem</i> , 2016 , 81, 935-940	2.8	17
184	3D-TEM microstructure analyses of anisotropic and isotropic aerogels of TiO ₂ nanoparticles 2016 , 1052-1053		0

183	Chemical Substitution - Alignment of the Surface Potentials for Efficient Charge Transport in Nanocrystalline TiO ₂ Photocatalysts. <i>Chemistry of Materials</i> , 2016 , 28, 4223-4230	9.6	22
182	A poly-(styrene-acrylonitrile) copolymer-derived hierarchical architecture in electrode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11481-11490	13	7
181	Three-Dimensional Assembly of Yttrium Oxide Nanosheets into Luminescent Aerogel Monoliths with Outstanding Adsorption Properties. <i>ACS Nano</i> , 2016 , 10, 2467-75	16.7	66
180	Evaporation-Induced Self-Assembly of Ultrathin Tungsten Oxide Nanowires over a Large Scale for Ultraviolet Photodetector. <i>Langmuir</i> , 2016 , 32, 2474-81	4	30
179	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	15.6	42
178	From 1D to 3D - macroscopic nanowire aerogel monoliths. <i>Nanoscale</i> , 2016 , 8, 14074-7	7.7	25
177	Size-Dependent Luminescence in HfO ₂ Nanocrystals: Toward White Emission from Intrinsic Surface Defects. <i>Chemistry of Materials</i> , 2016 , 28, 3245-3253	9.6	36
176	Assembly of ultrasmall Cu ₃ N nanoparticles into three-dimensional porous monolithic aerogels. <i>Dalton Transactions</i> , 2016 , 45, 11616-9	4.3	14
175	Nanoparticle-Based Magnetoelectric BaTiO-CoFeO Thin Film Heterostructures for Voltage Control of Magnetism. <i>ACS Nano</i> , 2016 , 10, 9840-9851	16.7	35
174	When Nanoparticles Meet Poly(Ionic Liquid)s: Chemosensitive CO ₂ Sensing at Room Temperature. <i>Advanced Functional Materials</i> , 2015 , 25, 2537-2542	15.6	68
173	Multiscale anode materials in lithium ion batteries by combining micro- with nanoparticles: design of mesoporous TiO ₂ microfibers@nitrogen doped carbon composites. <i>Nanoscale</i> , 2015 , 7, 13898-906	7.7	15
172	Subpicosecond to Second Time-Scale Charge Carrier Kinetics in Hematite-Titania Nanocomposite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2859-64	6.4	25
171	Matching the organic and inorganic counterparts during nucleation and growth of copper-based nanoparticles In situ spectroscopic studies. <i>CrystEngComm</i> , 2015 , 17, 6962-6971	3.3	21
170	Controlled fabrication of porous metals from the nanometer to the macroscopic scale. <i>Materials Horizons</i> , 2015 , 2, 359-377	14.4	50
169	A general method of fabricating flexible spinel-type oxide/reduced graphene oxide nanocomposite aerogels as advanced anodes for lithium-ion batteries. <i>ACS Nano</i> , 2015 , 9, 4227-35	16.7	105
168	Carbon-metal interfaces analyzed by aberration-corrected TEM: how copper and nickel nanoparticles interact with MWCNTs. <i>Micron</i> , 2015 , 72, 52-8	2.3	13
167	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	35.4	115
166	Liquid-phase deposition of ferroelectrically switchable nanoparticle-based BaTiO ₃ films of macroscopically controlled thickness. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9833-9841	7.1	19

165	Amorphous cobalt silicate nanobelts@carbon composites as a stable anode material for lithium ion batteries. <i>Chemical Science</i> , 2015 , 6, 6908-6915	9.4	52
164	Ultras-small 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	9.6	45
163	Facile synthesis of monodisperse Co ₃ O ₄ quantum dots with efficient oxygen evolution activity. <i>Chemical Communications</i> , 2015 , 51, 1338-40	5.8	73
162	Heterostructure formation from hydrothermal annealing of preformed nanocrystals. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2216-2225	13	24
161	Large-area alignment of tungsten oxide nanowires over flat and patterned substrates for room-temperature gas sensing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 340-4	16.4	98
160	Non-aqueous sol-gel synthesis of hybrid rare-earth-doped ZnGa ₂ O ₃ nanoparticles with multiple organic-inorganic-ionic light-emission features. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 41-45	7.1	24
159	Nonhydrolytic Sol-Gel Methods 2015 , 29-70		3
158	Großzügige Anordnung von Wolframoxidnanodrähten auf ebenen und strukturierten Substraten für Gassensorik bei Raumtemperatur. <i>Angewandte Chemie</i> , 2015 , 127, 347-351	3.6	7
157	Mechanistic Studies as a Tool for the Design of Copper-Based Heterostructures. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500094	4.6	6
156	Design of multicomponent aerogels and their performance in photocatalytic hydrogen production. <i>Catalysis Today</i> , 2015 , 246, 101-107	5.3	19
155	Design of vanadium oxide core-shell nanoplatelets for lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2861-2868	13	31
154	Microwave-Assisted Nonaqueous Synthesis of Doped Ceria Nanoparticles Assembled into Flakes. <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 733-737	1.3	8
153	Single-step functionalization of vertically aligned MWCNTs with Cu and Ni by chemical reduction of copper and nickel acetyl acetonate in benzyl alcohol. <i>Carbon</i> , 2014 , 73, 146-154	10.4	8
152	25th anniversary article: metal oxide particles in materials science: addressing all length scales. <i>Advanced Materials</i> , 2014 , 26, 235-57	24	99
151	Rationale for the crystallization of titania polymorphs in solution. <i>Nanoscale</i> , 2014 , 6, 14716-23	7.7	16
150	Multifunctional microparticles with uniform magnetic coatings and tunable surface chemistry. <i>RSC Advances</i> , 2014 , 4, 62483-62491	3.7	13
149	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	13	40
148	Anisotropically structured magnetic aerogel monoliths. <i>Nanoscale</i> , 2014 , 6, 13213-21	7.7	30

147	Allovalent Ni in MoO ₂ Lattice Probing the Structure and Valence of Ni and Its Implication on the Electrochemical Performance. <i>Chemistry of Materials</i> , 2014 , 26, 4505-4513	9.6	19
146	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	6	47
145	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	9.6	56
144	A novel non-aqueous sol-gel route for the in situ synthesis of high loaded silica-rubber nanocomposites. <i>Soft Matter</i> , 2014 , 10, 2234-44	3.6	15
143	Assembly of antimony doped tin oxide nanocrystals into conducting macroscopic aerogel monoliths. <i>Chemical Communications</i> , 2014 , 50, 13138-41	5.8	39
142	Colloidal Routes to Macroscopic Monoliths of Porous Titania and Copper. <i>Chimia</i> , 2014 , 68, 87	1.3	2
141	Assembly of BaTiO ₃ nanocrystals into macroscopic aerogel monoliths with high surface area. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6823-6	16.4	49
140	Double role of polyethylene glycol in the microwaves-assisted non-hydrolytic synthesis of nanometric TiO ₂ : oxygen source and stabilizing agent. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	14
139	Anordnung von BaTiO ₃ -Nanokristallen zu makroskopischen Aerogelmonolithen mit großer Oberfläche. <i>Angewandte Chemie</i> , 2014 , 126, 6941-6944	3.6	2
138	Anatase-silica composite aerogels: a nanoparticle-based approach. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 300-306	2.3	32
137	A comprehensive study of the crystallization mechanism involved in the nonaqueous formation of tungstite. <i>Nanoscale</i> , 2013 , 5, 8517-25	7.7	28
136	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, 7041-52	16.7	65
135	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , 2013 , 61, 404-411	10.4	46
134	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	9.6	53
133	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	9.6	33
132	Improved nonaqueous synthesis of TiO ₂ for dye-sensitized solar cells. <i>ACS Nano</i> , 2013 , 7, 8981-9	16.7	48
131	Transparent conducting Sn:ZnO films deposited from nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 65, 28-35	2.3	19
130	The fascinating world of nanoparticle research. <i>Materials Today</i> , 2013 , 16, 262-271	21.8	226

129	Zinc oxide nanoparticles: chemical mechanisms and classical and non-classical crystallization. <i>Dalton Transactions</i> , 2013 , 42, 12554-68	4.3	148
128	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	8.3	48
127	Microwave-Assisted Nonaqueous Routes to Metal Oxide Nanoparticles and Nanostructures 2013 , 185-205		2
126	Wet-chemical preparation of copper foam monoliths with tunable densities and complex macroscopic shapes. <i>Advanced Materials</i> , 2013 , 25, 5599-604	24	22
125	Study of the chemical mechanism involved in the formation of tungstite in benzyl alcohol by the advanced QEXAFS technique. <i>Chemistry - A European Journal</i> , 2012 , 18, 2305-12	4.8	24
124	Superparamagnetic core-shell nanoparticles as solid supports for peptide synthesis. <i>Chemical Communications</i> , 2012 , 48, 7176-8	5.8	13
123	Direct imaging of dopant clustering in metal-oxide nanoparticles. <i>ACS Nano</i> , 2012 , 6, 7077-83	16.7	30
122	Mechanistic aspects of molecular formation and crystallization of zinc oxide nanoparticles in benzyl alcohol. <i>Nanoscale</i> , 2012 , 4, 1982-95	7.7	49
121	Formation mechanism of LiFePO ₄ sticks grown by a microwave-assisted liquid-phase process. <i>Small</i> , 2012 , 8, 2231-8	11	17
120	Flüssigphasenabscheidung freistehender Kupferfolien und Kupferdünfilme auf ein Substrat und deren Strukturierung zu Leiterbahnmustern. <i>Angewandte Chemie</i> , 2012 , 124, 4824-4827	3.6	1
119	Titelbild: Flüssigphasenabscheidung freistehender Kupferfolien und Kupferdünfilme auf ein Substrat und deren Strukturierung zu Leiterbahnmustern (Angew. Chem. 19/2012). <i>Angewandte Chemie</i> , 2012 , 124, 4571-4571	3.6	
118	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, 4743-6	16.4	48
117	Extension of the benzyl alcohol route to metal sulfides: "nonhydrolytic" thio sol-gel synthesis of ZnS and SnS ₂ . <i>Chemical Communications</i> , 2011 , 47, 5280-2	5.8	34
116	Faster Response Times of Rare-Earth Oxycarbonate Based CO ₂ Sensors and Another Readout Strategy for Real-World Applications. <i>Procedia Engineering</i> , 2011 , 25, 1429-1432		6
115	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		75
114	Template-free co-assembly of preformed Au and TiO ₂ nanoparticles into multicomponent 3D aerogels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16893		67
113	Magnetite/maghemite mixture prepared in benzyl alcohol for the preparation of γ -Fe ₂ O ₃ with α -Fe. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2471-2474	6	19
112	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	2.3	63

111	Interplay between size and crystal structure of molybdenum dioxide nanoparticles--synthesis, growth mechanism, and electrochemical performance. <i>Small</i> , 2011 , 7, 377-87	11	77
110	Antimony doped tin oxide nanoparticles and their assembly in mesostructured film. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1759-1763		6
109	Microwave-Assisted Nonaqueous Sol-Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1484-1495	3.8	104
108	Anisotropic Crystal Growth Kinetics of Anatase TiO ₂ Nanoparticles Synthesized in a Nonaqueous Medium. <i>Chemistry of Materials</i> , 2010 , 22, 6044-6055	9.6	69
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