

# Markus Niederberger

## List of Publications by Citations

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18,611  
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#	Paper	IF	Citations
254	Oriented attachment and mesocrystals: non-classical crystallization mechanisms based on nanoparticle assembly. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 3271-87	3.6	943
253	Microwave chemistry for inorganic nanomaterials synthesis. <i>Nanoscale</i> , <b>2010</b> , 2, 1358-74	7.7	875
252	Nonaqueous sol-gel routes to metal oxide nanoparticles. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 793-800.	11.3	564
251	Surfactant-free nonaqueous synthesis of metal oxide nanostructures. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5292-304	16.4	406
250	Organic reaction pathways in the nonaqueous synthesis of metal oxide nanoparticles. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 7282-302	4.8	393
249	Morphology and Topochemical Reactions of Novel Vanadium Oxide Nanotubes. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 8324-8331	16.4	388
248	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> , <b>2002</b> , 14, 4364-4370	9.6	371
247	Magnetite Nanocrystals: Nonaqueous Synthesis, Characterization, and Solubility. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3044-3049	9.6	317
246	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> , <b>2002</b> , 124, 13642-3	16.4	309
245	Template-free synthesis and assembly of single-crystalline tungsten oxide nanowires and their gas-sensing properties. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 45, 261-5	16.4	304
244	Nonaqueous synthesis of nanocrystalline semiconducting metal oxides for gas sensing. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4345-9	16.4	294
243	One-minute synthesis of crystalline binary and ternary metal oxide nanoparticles. <i>Chemical Communications</i> , <b>2008</b> , 886-8	5.8	277
242	Non-aqueous Synthesis of Tin Oxide Nanocrystals and Their Assembly into Ordered Porous Mesostructures. <i>Advanced Materials</i> , <b>2005</b> , 17, 2509-2512	24	252
241	Nonaqueous and halide-free route to crystalline BaTiO <sub>3</sub> , SrTiO <sub>3</sub> , and (Ba,Sr)TiO <sub>3</sub> nanoparticles via a mechanism involving C-C bond formation. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9120-6	16.4	250
240	A general soft-chemistry route to perovskites and related materials: synthesis of BaTiO <sub>3</sub> , BaZrO <sub>3</sub> , and LiNbO <sub>3</sub> nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2270-3	16.4	249
239	Ligand-Directed Assembly of Preformed Titania Nanocrystals into Highly Anisotropic Nanostructures. <i>Advanced Materials</i> , <b>2004</b> , 16, 436-439	24	241
238	Organic Cathode for Aqueous Zn-Ion Batteries: Taming a Unique Phase Evolution toward Stable Electrochemical Cycling. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3874-3881	9.6	236

237	The fascinating world of nanoparticle research. <i>Materials Today</i> , <b>2013</b> , 16, 262-271	21.8	226
236	Low-Cost Synthesis of Vanadium Oxide Nanotubes via Two Novel Non-Alkoxide Routes. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1995-2000	9.6	209
235	Tailoring the Surface and Solubility Properties of Nanocrystalline Titania by a Nonaqueous In Situ Functionalization Process. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1202-1208	9.6	206
234	Growth and assembly of crystalline tungsten oxide nanostructures assisted by bioligation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15595-601	16.4	199
233	A general nonaqueous route to binary metal oxide nanocrystals involving a C-C bond cleavage. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5608-12	16.4	196
232	Kinetic and thermodynamic aspects in the microwave-assisted synthesis of ZnO nanoparticles in benzyl alcohol. <i>ACS Nano</i> , <b>2009</b> , 3, 467-77	16.7	191
231	Metal Oxide Nanoparticles in Organic Solvents. <i>Engineering Materials and Processes</i> , <b>2009</b> ,		180
230	Large-scale synthesis of organophilic zirconia nanoparticles and their application in organic-inorganic nanocomposites for efficient volume holography. <i>Small</i> , <b>2007</b> , 3, 1626-32	11	159
229	Zinc oxide nanoparticles: chemical mechanisms and classical and non-classical crystallization. <i>Dalton Transactions</i> , <b>2013</b> , 42, 12554-68	4.3	148
228	Nonaqueous Synthesis of Uniform Indium Tin Oxide Nanocrystals and Their Electrical Conductivity in Dependence of the Tin Oxide Concentration. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 2848-2854	9.6	147
227	Non-Aqueous Synthesis of High-Purity Metal Oxide Nanopowders Using an Ether Elimination Process. <i>Advanced Materials</i> , <b>2004</b> , 16, 2196-2200	24	140
226	Non-aqueous routes to crystalline metal oxide nanoparticles: Formation mechanisms and applications. <i>Progress in Solid State Chemistry</i> , <b>2005</b> , 33, 59-70	8	131
225	Highly Conducting Nanosized Monodispersed Antimony-Doped Tin Oxide Particles Synthesized via Nonaqueous Sol-Gel Procedure. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5229-5236	9.6	127
224	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> , <b>2006</b> , 40, 259-266	2.3	127
223	Nonaqueous and Surfactant-Free Synthesis Routes to Metal Oxide Nanoparticles. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 1801-1808	3.8	126
222	Ligand functionality as a versatile tool to control the assembly behavior of preformed titania nanocrystals. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 3541-51	4.8	124
221	Nonaqueous Sol-Gel Synthesis of a Nanocrystalline InNbO <sub>4</sub> Visible-Light Photocatalyst. <i>Advanced Materials</i> , <b>2007</b> , 19, 2083-2086	24	119
220	Steam reforming of methanol over Cu/ZrO/CeO catalysts: a kinetic study. <i>Journal of Catalysis</i> , <b>2005</b> , 230, 464-475	7.3	117

219	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> , <b>2015</b> , 8, 3242-3254	35.4	115
218	Organic chemistry in inorganic nanomaterials synthesis. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1171-1182		115
217	Synthesis and Characterization of Stable and Crystalline Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Nanoparticle Sols. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2599-2604	9.6	111
216	Co-Doped ZnO nanoparticles: minireview. <i>Nanoscale</i> , <b>2010</b> , 2, 1096-104	7.7	106
215	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> , <b>2015</b> , 9, 4227-35	16.7	105
214	Diluted magnetic semiconductors: Mn/Co-doped ZnO nanorods as case study. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5208		105
213	Nonaqueous Synthesis of Manganese Oxide Nanoparticles, Structural Characterization, and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3614-3623	3.8	105
212	Synthesis of yttria-based crystalline and lamellar nanostructures and their formation mechanism. <i>Small</i> , <b>2005</b> , 1, 112-21	11	105
211	Microwave-Assisted Nonaqueous Sol-Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1484-1495	3.8	104
210	Thermal Transformation of Metal Oxide Nanoparticles into Nanocrystalline Metal Nitrides Using Cyanamide and Urea as Nitrogen Source. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3499-3505	9.6	104
209	Dispersion behavior of zirconia nanocrystals and their surface functionalization with vinyl group-containing ligands. <i>Langmuir</i> , <b>2007</b> , 23, 9178-87	4	103
208	Nonaqueous TiO <sub>2</sub> nanoparticle synthesis: a versatile basis for the fabrication of self-supporting, transparent, and UV-absorbing composite films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1097-104	9.5	101
207	25th anniversary article: metal oxide particles in materials science: addressing all length scales. <i>Advanced Materials</i> , <b>2014</b> , 26, 235-57	24	99
206	Large-area alignment of tungsten oxide nanowires over flat and patterned substrates for room-temperature gas sensing. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 340-4	16.4	98
205	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , <b>2018</b> , 12, 2753-2763	16.7	97
204	Synthesis and characterization of novel nanoscopic molybdenum oxide fibers. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1941-1945		93
203	In situ investigations of structure-activity relationships of a Cu/ZrO <sub>2</sub> catalyst for the steam reforming of methanol. <i>Journal of Catalysis</i> , <b>2005</b> , 233, 297-307	7.3	92
202	Controlled assembly of preformed ceria nanocrystals into highly ordered 3D nanostructures. <i>Small</i> , <b>2005</b> , 1, 313-6	11	91

201	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> , <b>2008</b> , 181, 1571-1581	3.3	89
200	Atomic-Scale Structure of Nanocrystalline $Ba_xSr_{1-x}TiO_3$ ( $x = 1, 0.5, 0$ ) by X-ray Diffraction and the Atomic Pair Distribution Function Technique. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 814-821	9.6	89
199	Probing Local Dipoles and Ligand Structure in $BaTiO_3$ Nanoparticles. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4386-4391	9.6	88
198	A Highly Sensitive and Fast-Responding Ethanol Sensor Based on $CdIn_2O_4$ Nanocrystals Synthesized by a Nonaqueous Sol-Gel Route. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5781-5786	9.6	87
197	Synthesis of aerogels: from molecular routes to 3-dimensional nanoparticle assembly. <i>Nanoscale Horizons</i> , <b>2017</b> , 2, 6-30	10.8	83
196	Neodymium Dioxide Carbonate as a Sensing Layer for Chemoresistive $CO_2$ Sensing. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5375-5381	9.6	79
195	Interplay between size and crystal structure of molybdenum dioxide nanoparticles--synthesis, growth mechanism, and electrochemical performance. <i>Small</i> , <b>2011</b> , 7, 377-87	11	77
194	A novel nonaqueous route to $V_2O_3$ and $Nb_2O_5$ nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2004</b> , 250, 211-213	5.1	77
193	An Iron Polyolate Complex as a Precursor for the Controlled Synthesis of Monodispersed Iron Oxide Colloids. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 78-82	9.6	77
192	$In_2O_3$ and $Pt-In_2O_3$ nanopowders for low temperature oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 455-462	8.5	76
191	Effect of the chemical composition on the sensing properties of $In_2O_3/BnO_2$ nanoparticles synthesized by a non-aqueous method. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 222-230	8.5	76
190	Microwave-assisted solution synthesis of doped $LiFePO_4$ with high specific charge and outstanding cycling performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5881		75
189	Efficient microwave-assisted synthesis of $LiFePO_4$ mesocrystals with high cycling stability. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5125		75
188	Nonaqueous synthesis of crystalline anatase nanoparticles in simple ketones and aldehydes as oxygen-supplying agents. <i>Chemical Communications</i> , <b>2005</b> , 397-9	5.8	75
187	Facile synthesis of monodisperse $Co_3O_4$ quantum dots with efficient oxygen evolution activity. <i>Chemical Communications</i> , <b>2015</b> , 51, 1338-40	5.8	73
186	Template-Free Synthesis and Assembly of Single-Crystalline Tungsten Oxide Nanowires and their Gas-Sensing Properties. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 267-271	3.6	73
185	Probing Solvent-Ligand Interactions in Colloidal Nanocrystals by the NMR Line Broadening. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5485-5492	9.6	72
184	Anisotropic Crystal Growth Kinetics of Anatase $TiO_2$ Nanoparticles Synthesized in a Nonaqueous Medium. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6044-6055	9.6	69

183	When Nanoparticles Meet Poly(Ionic Liquid)s: Chemoresistive CO <sub>2</sub> Sensing at Room Temperature. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2537-2542	15.6	68
182	Fully Integrated Design of a Stretchable Solid-State Lithium-Ion Full Battery. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904648	24	68
181	Template-free co-assembly of preformed Au and TiO <sub>2</sub> nanoparticles into multicomponent 3D aerogels. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 16893		67
180	Morphology-controlled nonaqueous synthesis of anisotropic lanthanum hydroxide nanoparticles. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 2154-2165	3.3	67
179	Three-Dimensional Assembly of Yttrium Oxide Nanosheets into Luminescent Aerogel Monoliths with Outstanding Adsorption Properties. <i>ACS Nano</i> , <b>2016</b> , 10, 2467-75	16.7	66
178	Mechanistic Aspects in the Formation, Growth and Surface Functionalization of Metal Oxide Nanoparticles in Organic Solvents. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 8542-8570	4.8	65
177	Multifunctional role of rare earth doping in optical materials: nonaqueous sol-gel synthesis of stabilized cubic HfO <sub>2</sub> luminescent nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 7041-52	16.7	65
176	New developments in the nonaqueous and/or non-hydrolytic sol-gel synthesis of inorganic nanoparticles. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7717-7725	6.7	64
175	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> , <b>2011</b> , 57, 313-322	2.3	63
174	Preparation of ligand-free TiO <sub>2</sub> (anatase) nanoparticles through a nonaqueous process and their surface functionalization. <i>Langmuir</i> , <b>2008</b> , 24, 6988-97	4	62
173	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In <sub>2</sub> O <sub>3</sub> nanocrystals. <i>Chemical Communications</i> , <b>2005</b> , 6032-4	5.8	60
172	Transparent conducting films of antimony-doped tin oxide with uniform mesostructure assembled from preformed nanocrystals. <i>Small</i> , <b>2010</b> , 6, 633-7	11	59
171	Ligand and solvent effects in the nonaqueous synthesis of highly ordered anisotropic tungsten oxide nanostructures. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3969		58
170	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> , <b>2014</b> , 26, 5576-5584	9.6	56
169	Nonaqueous Synthesis of Nanocrystalline Indium Oxide and Zinc Oxide in the Oxygen-Free Solvent Acetonitrile. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 113-116	3.5	56
168	From colloidal dispersions to aerogels: How to master nanoparticle gelation. <i>Nano Today</i> , <b>2020</b> , 30, 100827.9	27.9	56
167	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> , <b>2019</b> , 29, 1902858	15.6	54
166	High-Quality Transparent Electrodes Spin-Cast from Preformed Antimony-Doped Tin Oxide Nanocrystals for Thin Film Optoelectronics. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4901-4907	9.6	53

165	Amorphous cobalt silicate nanobelts@carbon composites as a stable anode material for lithium ion batteries. <i>Chemical Science</i> , <b>2015</b> , 6, 6908-6915	9.4	52
164	Self-assembly in inorganic and hybrid systems: beyond the molecular scale. <i>Dalton Transactions</i> , <b>2008</b> , 18-24	4.3	52
163	A General Soft-Chemistry Route to Perovskites and Related Materials: Synthesis of BaTiO <sub>3</sub> , BaZrO <sub>3</sub> , and LiNbO <sub>3</sub> Nanoparticles. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2320-2323	3.6	52
162	Fast Na-Ion Intercalation in Zinc Vanadate for High-Performance Na-Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802800	21.8	52
161	Controlled fabrication of porous metals from the nanometer to the macroscopic scale. <i>Materials Horizons</i> , <b>2015</b> , 2, 359-377	14.4	50
160	Photocatalytic Gas Phase Reactions. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 597-618	9.6	50
159	Assembly of BaTiO <sub>3</sub> nanocrystals into macroscopic aerogel monoliths with high surface area. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6823-6	16.4	49
158	Mechanistic aspects of molecular formation and crystallization of zinc oxide nanoparticles in benzyl alcohol. <i>Nanoscale</i> , <b>2012</b> , 4, 1982-95	7.7	49
157	Low-temperature synthesis of gamma-alumina nanocrystals from aluminum acetylacetonate in nonaqueous media. <i>Small</i> , <b>2007</b> , 3, 763-7	11	49
156	Improved nonaqueous synthesis of TiO <sub>2</sub> for dye-sensitized solar cells. <i>ACS Nano</i> , <b>2013</b> , 7, 8981-9	16.7	48
155	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> , <b>2012</b> , 51, 4743-6	16.4	48
154	Microwave-Assisted Nonaqueous Sol-Gel Synthesis: From Al:ZnO Nanoparticles to Transparent Conducting Films. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 152-160	8.3	48
153	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> , <b>2010</b> , 12, 15537-43	3.6	48
152	Multiscale Nanoparticle Assembly: From Particulate Precise Manufacturing to Colloidal Processing. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703647	15.6	47
151	Influence of carbon enrichment on electrical conductivity and processing of polycarbosilane derived ceramic for MEMS applications. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3559-3570	6	47
150	Nonaqueous synthesis, assembly and formation mechanisms of metal oxide nanocrystals. <i>International Journal of Nanotechnology</i> , <b>2007</b> , 4, 263	1.5	47
149	Nonaqueous Synthesis of Amorphous Powder Precursors for Nanocrystalline PbTiO <sub>3</sub> , Pb(Zr,Ti)O <sub>3</sub> , and PbZrO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4594-4599	9.6	47
148	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , <b>2013</b> , 61, 404-411	10.4	46

147	Ultrasmall Cu <sub>3</sub> N Nanoparticles: Surfactant-Free Solution-Phase Synthesis, Nitridation Mechanism, and Application for Lithium Storage. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8282-8288	9.6	45
146	Crystallization of indium tin oxide nanoparticles: from cooperative behavior to individuality. <i>Small</i> , <b>2007</b> , 3, 310-7	11	45
145	Translucent nanoparticle-based aerogel monoliths as 3-dimensional photocatalysts for the selective photoreduction of CO <sub>2</sub> to methanol in a continuous flow reactor. <i>Materials Horizons</i> , <b>2017</b> , 4, 1115-1121	14.4	42
144	CoFe <sub>2</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> -SiO <sub>2</sub> Nanoparticle Thin Films with Perpendicular Magnetic Anisotropy for Magnetic and Magneto-Optical Applications. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1954-1963	15.6	42
143	Nonaqueous Synthesis of Colloidal ZnGa <sub>2</sub> O <sub>4</sub> Nanocrystals and Their Photoluminescence Properties. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5830-5832	9.6	41
142	Microwave-assisted nonaqueous synthesis of WO <sub>3</sub> nanoparticles for crystallographically oriented photoanodes for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20530-20537	13	40
141	Assembly of antimony doped tin oxide nanocrystals into conducting macroscopic aerogel monoliths. <i>Chemical Communications</i> , <b>2014</b> , 50, 13138-41	5.8	39
140	Towards enhanced performances in gas sensing: SnO <sub>2</sub> based nanocrystalline oxides application. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 564-571	8.5	36
139	Size-Dependent Luminescence in HfO <sub>2</sub> Nanocrystals: Toward White Emission from Intrinsic Surface Defects. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3245-3253	9.6	36
138	Titania-Cellulose Hybrid Monolith for In-Flow Purification of Water under Solar Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29599-29607	9.5	35
137	Generalized nonaqueous sol-gel synthesis of different transition-metal niobate nanocrystals and analysis of the growth mechanism. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 746-52	4.5	35
136	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 4445-4449	3.6	35
135	Nanoparticle-Based Magnetoelectric BaTiO <sub>3</sub> -CoFeO Thin Film Heterostructures for Voltage Control of Magnetism. <i>ACS Nano</i> , <b>2016</b> , 10, 9840-9851	16.7	35
134	Extension of the benzyl alcohol route to metal sulfides: "nonhydrolytic" thio sol-gel synthesis of ZnS and SnS <sub>2</sub> . <i>Chemical Communications</i> , <b>2011</b> , 47, 5280-2	5.8	34
133	Oxygen self-doping in hollandite-type vanadium oxyhydroxide nanorods. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11364-75	16.4	34
132	Tensidfreie nichtwässrige Synthese von Metalloxid-Nanostrukturen. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 5372-5385	3.6	34
131	Tailoring Two Polymorphs of LiFePO <sub>4</sub> by Efficient Microwave-Assisted Synthesis: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3399-3407	9.6	33
130	Structural Characterization of a Nanocrystalline Inorganic/Organic Hybrid with Fiberlike Morphology and One-Dimensional Antiferromagnetic Properties. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3356-3369	9.6	33



129	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> , <b>2000</b> , 626, 2208-2216	1.3	33
128	Monolithic metal-containing TiO <sub>2</sub> aerogels assembled from crystalline pre-formed nanoparticles as efficient photocatalysts for H <sub>2</sub> generation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118660	21.8	32
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126	Anatase-silica composite aerogels: a nanoparticle-based approach. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 70, 300-306	2.3	32
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1 Controlled Impurity Admixture: From Doped Systems to Composites **2021**, 151-183