

Sebastian Polarz

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.

154
papers

5,314
citations

42
h-index

68
g-index

182
ext. papers

5,674
ext. citations

8.4
avg. IF

5.77
L-index

#	Paper	IF	Citations
154	Molecular fusion of surfactant and Lewis-acid properties for attacking dirt by catalytic bond cleavage. <i>Scientific Reports</i> , 2021 , 11, 5131	4.9	1
153	Voltammetry as a Tool to Monitor the Aggregation Behavior of a Zwitterionic Ferrocene Surfactant. <i>Langmuir</i> , 2021 , 37, 4183-4191	4	
152	Ligand-Programmed Consecutive Symmetry Break(s) in Nanoparticle Based Materials Showing Emergent Phenomena: Transitioning from Sixfold to Threefold Symmetry in Anisotropic ZnO Colloids. <i>Advanced Functional Materials</i> , 2021 , 31, 2009104	15.6	3
151	Anisotropic Magnetism in Gradient Porous Carbon Composite Aerogels. <i>Journal of Carbon Research</i> , 2021 , 7, 22	3.3	1
150	Great Location: About Effects of Surface Bound Neighboring Groups for Passive and Active Fine-Tuning of CO Adsorption Properties in Model Carbon Capture Materials. <i>Advanced Materials</i> , 2021 , 33, e2007734	24	4
149	Aggregation-Induced Improvement of Catalytic Activity by Inner-Aggregate Electronic Communication of Metal-Fullerene-Based Surfactants. <i>ChemCatChem</i> , 2020 , 12, 2726-2731	5.2	3
148	Stimuli-Responsive Particle-Based Amphiphiles as Active Colloids Prepared by Anisotropic Click Chemistry. <i>Angewandte Chemie</i> , 2020 , 132, 8987-8991	3.6	2
147	The influence of structural gradients in large pore organosilica materials on the capabilities for hosting cellular communities.. <i>RSC Advances</i> , 2020 , 10, 17327-17335	3.7	1
146	Stimuli-Responsive Particle-Based Amphiphiles as Active Colloids Prepared by Anisotropic Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8902-8906	16.4	4
145	Versatile surface modification of aerogels by click chemistry as an approach to generate model systems for CO ₂ adsorption features in amine-containing organosilica. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109879	5.3	5
144	Copolymerization of Mesoporous Styrene-Bridged Organosilica Nanoparticles with Functional Monomers for the Stimuli-Responsive Remediation of Water. <i>ChemSusChem</i> , 2020 , 13, 5100-5111	8.3	3
143	Oxygen vacancy injection-induced resistive switching in combined mobile and static gradient doped tin oxide nanorods. <i>Nanoscale</i> , 2020 , 12, 18322-18332	7.7	1
142	Interfacial charge transfer processes in 2D and 3D semiconducting hybrid perovskites: azobenzene as photoswitchable ligand. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 466-479	3	6
141	Ferro-self-assembly: magnetic and electrochemical adaptation of a multiresponsive zwitterionic metalloamphiphile showing a shape-hysteresis effect. <i>Chemical Science</i> , 2020 , 12, 270-281	9.4	4
140	Easy, efficient and versatile one-pot synthesis of Janus-type-substituted fullerenols. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 901-905	2.5	5
139	Light-Triggered Boost of Activity of Catalytic Bola-Type Surfactants by a Plasmonic Metal-Support Interaction Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15936-15944	9.5	12
138	Tolerance in superstructures formed from high-quality colloidal ZnO nanoparticles with hexagonal cross-section. <i>CrystEngComm</i> , 2019 , 21, 5137-5144	3.3	3

137	Molecular Semiconductor Surfactants with Fullerenol Heads and Colored Tails for Carbon Dioxide Photoconversion. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15620-15625	16.4	8
136	Sacrificial Templating: A Route to Europium-II Oxide (EuO) Particles with Arbitrary Shape Prepared Indirectly by Hostile Takeover. <i>Crystal Growth and Design</i> , 2019 , 19, 4234-4238	3.5	2
135	Creating Directionality in Nanoporous Carbon Materials: Adjustable Combinations of Structural and Chemical Gradients. <i>Advanced Functional Materials</i> , 2019 , 29, 1904058	15.6	7
134	NHC-Metallosurfactants as Active Polymerization Catalysts. <i>Langmuir</i> , 2019 , 35, 16514-16520	4	6
133	Tunable high-index photonic glasses. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
132	Controlling the density of hydrothermally grown rutile TiO ₂ nanorods on anatase TiO ₂ films. <i>Surfaces and Interfaces</i> , 2019 , 15, 141-147	4.1	5
131	Molekulare Halbleiter-Tenside mit Fullerenol-Kopfgruppe und Farbstoffketten für die photokatalytische Umwandlung von Kohlenstoffdioxid. <i>Angewandte Chemie</i> , 2019 , 131, 15766-15771	3.6	0
130	Localization of Guest Molecules in Nanopores by Pulsed EPR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5376-5384	3.8	3
129	Electron Transfer in Self-Assembled Micelles Built by Conductive Polyoxometalate-Surfactants Showing Battery-Like Behavior. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701430	4.6	13
128	Influence of substrates and rutile seed layers on the assembly of hydrothermally grown rutile TiO ₂ nanorod arrays. <i>Journal of Crystal Growth</i> , 2018 , 494, 26-35	1.6	10
127	Organometallic, Nonclassical Surfactant with Gemini Design Comprising π -Conjugated Constituents Ready for Modification. <i>ACS Omega</i> , 2018 , 3, 8854-8864	3.9	8
126	Sweet surfactants: packing parameter-invariant amphiphiles as emulsifiers and capping agents for morphology control of inorganic particles. <i>Soft Matter</i> , 2018 , 14, 7214-7227	3.6	4
125	Nanomorphology Effects in Semiconductors with Native Ferromagnetism: Hierarchical Europium (II) Oxide Tubes Prepared via a Topotactic Nanostructure Transition. <i>Advanced Materials</i> , 2018 , 30, 1703612	24.2	5
124	Eurogels: A ferromagnetic semiconductor with a porous structure prepared via the assembly of hybrid nanorods. <i>Nanoscale</i> , 2018 , 10, 19272-19276	7.7	2
123	Formabhängige Eigenschaften und kooperative Effekte. <i>Nachrichten Aus Der Chemie</i> , 2018 , 66, 1042-1046	0.1	
122	Added-Value Surfactants. <i>Chemistry - A European Journal</i> , 2018 , 24, 18842-18856	4.8	34
121	Increasing the Resistance of Living Cells against Oxidative Stress by Nonnatural Surfactants as Membrane Guards. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23638-23646	9.5	6
120	ZnO Nanoparticle Formation from the Molecular Precursor [MeZnOtBu] ₄ by Ozone Treatment in Ionic Liquids: in-situ Vibrational Spectroscopy in an Ultrahigh Vacuum Environment. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 31-40	1.3	5

119	Magneto-Adaptive Surfactants Showing Anti-Curie Behavior and Tunable Surface Tension as Porogens for Mesoporous Particles with 12-Fold Symmetry. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5475-5479	16.4	6
118	Magneto-Adaptive Surfactants Showing Anti-Curie Behavior and Tunable Surface Tension as Porogens for Mesoporous Particles with 12-Fold Symmetry. <i>Angewandte Chemie</i> , 2017 , 129, 5567-5571	3.6	4
117	Nonequilibrium Catalyst Materials Stabilized by the Aerogel Effect: Solvent Free and Continuous Synthesis of Gamma-Alumina with Hierarchical Porosity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11599-11608	9.5	7
116	Impact of Crystal Surface on Photoexcited States in Organic-Inorganic Perovskites. <i>Advanced Functional Materials</i> , 2017 , 27, 1604995	15.6	16
115	Thiophene-Functionalized Hybrid Perovskite Microrods and their Application in Photodetector Devices for Investigating Charge Transport Through Interfaces in Particle-Based Materials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1077-1085	9.5	16
114	Order and Defects in Ceramic Semiconductor Nanoparticle Superstructures as a Function of Polydispersity and Aspect Ratio. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600215	3.1	2
113	Low Temperature Reaction of Molecular Zinc Oxide Precursors in Ionic Liquids Leading to Ionogel Nanoparticles with Shape Anisotropy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 93-100	1.3	5
112	Negative and Positive Confinement Effects in Chiral Separation Chromatography Monitored with Molecular-Scale Precision by In-Situ Electron Paramagnetic Resonance Techniques. <i>Langmuir</i> , 2017 , 33, 11968-11976	4	3
111	Time-, spectral- and spatially resolved EPR spectroscopy enables simultaneous monitoring of diffusion of different guest molecules in nano-pores. <i>Journal of Magnetic Resonance</i> , 2017 , 283, 45-51	3	5
110	Hybrid Surfactants with N-Heterocyclic Carbene Heads as a Multifunctional Platform for Interfacial Catalysis. <i>Chemistry - A European Journal</i> , 2017 , 23, 18129-18133	4.8	23
109	Peering into the Mechanism of Low-Temperature Synthesis of Bronze-type TiO ₂ in Ionic Liquids. <i>Crystal Growth and Design</i> , 2017 , 17, 5586-5601	3.5	17
108	Free-Standing Photonic Glasses Fabricated in a Centrifugal Field. <i>Small</i> , 2017 , 13, 1701392	11	12
107	Facet-controlled preparation of hybrid perovskite microcrystals in the gas phase and the remarkable effect on optoelectronic properties. <i>CrystEngComm</i> , 2017 , 19, 4615-4621	3.3	6
106	Resonant transport and near-field effects in photonic glasses. <i>Physical Review A</i> , 2017 , 96,	2.6	25
105	Functional Gradient Inverse Opal Carbon Monoliths with Directional and Multinary Porosity. <i>Advanced Materials</i> , 2017 , 29, 1603356	24	13
104	Synthesis of graphene-transition metal oxide hybrid nanoparticles and their application in various fields. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 688-714	3	76
103	Fourfold action of surfactants with superacid head groups: polyoxometalate-silicone nanocomposites as promising candidates for proton-conducting materials. <i>New Journal of Chemistry</i> , 2016 , 40, 919-922	3.6	10
102	Uniform Large-Area Free-Standing Silver Nanowire Arrays on Transparent Conducting Substrates. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D447-D452	3.9	23

101	Passing Current through Electrically Conducting Lyotropic Liquid Crystals and Micelles Assembled from Hybrid Surfactants with EConjugated Tail and Polyoxometalate Head. <i>ACS Nano</i> , 2016 , 10, 10041-10048	16.7	22
100	Catalytically Doped Semiconductors for Chemical Gas Sensing: Aerogel-Like Aluminum-Containing Zinc Oxide Materials Prepared in the Gas Phase. <i>Advanced Functional Materials</i> , 2016 , 26, 3424-3437	15.6	32
99	Microwave Induced Crystallization of the Hybrid Perovskite CH ₃ NH ₃ PbI ₃ from a Supramolecular Single-Source Precursor. <i>Chemistry of Materials</i> , 2016 , 28, 4134-4138	9.6	7
98	Sunlight-Triggered Nanoparticle Synergy: Teamwork of Reactive Oxygen Species and Nitric Oxide Released from Mesoporous Organosilica with Advanced Antibacterial Activity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3076-84	16.4	120
97	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. <i>Molecules</i> , 2016 , 21, 542	4.8	15
96	Maximizing Headgroup Repulsion: Hybrid Surfactants with Ultrahighly Charged Inorganic Heads and Their Unusual Self-Assembly. <i>Langmuir</i> , 2016 , 32, 10920-10927	4	6
95	Centrifugal Field-Induced Colloidal Assembly: From Chaos to Order. <i>ACS Nano</i> , 2015 , 9, 6944-50	16.7	24
94	Amphiphilic hybrids containing inorganic constituent: More than soap. <i>Current Opinion in Colloid and Interface Science</i> , 2015 , 20, 151-160	7.6	9
93	Simultaneous Monitoring of Macroscopic and Microscopic Diffusion of Guest Molecules in Silica and Organosilica Aerogels by Spatially and Time-Resolved Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17474-17479	3.8	4
92	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. <i>Nanoscale</i> , 2015 , 7, 16969-82	7.7	28
91	Plug and play synthesis of an organic/inorganic hybrid electrode with adjustable porosity: redox-active organosilica confined in mesoporous carbon. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22017-22020	12.2	20
90	Porous and shape-anisotropic single crystals of the semiconductor perovskite CH ₃ NH ₃ PbI ₃ from a single-source precursor. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1341-6	16.4	45
89	Directional Materials Nanoporous Organosilica Monoliths with Multiple Gradients Prepared Using Click Chemistry. <i>Angewandte Chemie</i> , 2015 , 127, 10611-10615	3.6	8
88	Poröse und formanisotrope Einkristalle des Halbleiter-Perowskits CH ₃ NH ₃ PbI ₃ aus einer neuen Single-Source-Vorstufe. <i>Angewandte Chemie</i> , 2015 , 127, 1357-1362	3.6	5
87	Directional Materials Nanoporous Organosilica Monoliths with Multiple Gradients Prepared Using Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10465-9	16.4	26
86	A single-source precursor route to anisotropic halogen-doped zinc oxide particles as a promising candidate for new transparent conducting oxide materials. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2161-72	3	4
85	Wiring functional groups in mesoporous organosilica materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2195-2203	7.1	6
84	Multiple scale investigation of molecular diffusion inside functionalized porous hosts using a combination of magnetic resonance methods. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15976-88	3.6	12

83	Mesoporous organosilica nanoparticles containing superacid and click functionalities leading to cooperativity in biocidal coatings. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1021-9	9.5	32
82	"Dirty nanostructures": aerosol-assisted synthesis of temperature stable mesoporous metal oxide semiconductor spheres comprising hierarchically assembled zinc oxide nanocrystals controlled via impurities. <i>Nanoscale</i> , 2014 , 6, 1698-706	7.7	4
81	Li-doped ZnO nanorods with single-crystal quality through non-classical crystallization and self-assembly into mesoporous materials. <i>CrystEngComm</i> , 2014 , 16, 1525-1531	3.3	16
80	Size-selected gold clusters on porous titania as the most "gold-efficient" heterogeneous catalysts. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11017-23	3.6	14
79	Nanoarchitecture Effects on Persistent Room Temperature Photoconductivity and Thermal Conductivity in Ceramic Semiconductors: Mesoporous, Yolk-Shell, and Hollow ZnO Spheres. <i>Crystal Growth and Design</i> , 2014 , 14, 4593-4601	3.5	21
78	Aerosol-Synthesis of Mesoporous Organosilica Nanoparticles with Highly Reactive, Superacidic Surfaces Comprising Sulfonic Acid Entities. <i>Advanced Functional Materials</i> , 2014 , 24, 1140-1150	15.6	26
77	Hybride Tensidsysteme mit anorganischen Bestandteilen. <i>Angewandte Chemie</i> , 2014 , 126, 962-970	3.6	8
76	Hybrid surfactant systems with inorganic constituents. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 946-54	16.4	69
75	Stimuli-responsive mesoporous organosilica materials containing pH-sensitive organic dyes. <i>Microporous and Mesoporous Materials</i> , 2013 , 171, 35-43	5.3	15
74	Metal-supported catalysts encapsulated in mesoporous solids: Challenges and opportunities of a model concept. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1081-1093	1.3	7
73	Probing Functional Group Specific Surface Interactions in Porous Solids Using ESR Spectroscopy as a Sensitive and Quantitative Tool. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2805-2816	3.8	16
72	Panoscopic structures by hierarchical cascade self-assembly of inorganic surfactants with magnetic heads containing dysprosium ions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13665-70	16.4	17
71	The Effect of Centrifugal Force on the Assembly and Crystallization of Binary Colloidal Systems: Towards Structural Gradients. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013 , 68, 103-110	1	10
70	Panoscopic Structures by Hierarchical Cascade Self-Assembly of Inorganic Surfactants with Magnetic Heads Containing Dysprosium Ions. <i>Angewandte Chemie</i> , 2013 , 125, 13910-13915	3.6	4
69	Hierarchical zinc oxide materials with multiple porosity prepared by ultrafast temperature gradient chemical gas-phase synthesis. <i>Advanced Materials</i> , 2012 , 24, 543-8	24	42
68	Biomimetic crystallization of anisotropic zinc oxide nanoparticles in the homogeneous phase: shape control by surface additives applied under thermodynamic or kinetic control. <i>RSC Advances</i> , 2012 , 2, 52987	3.7	16
67	Polyoxometalate Surfactants as Unique Molecules for Interfacial Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 322-6	6.4	39
66	Temperature-stable and optically transparent thin-film zinc oxide aerogel electrodes as model systems for 3D interpenetrating organic-inorganic heterojunction solar cells. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6522-9	9.5	11

65	Band-Gap Engineering of Zinc Oxide Colloids via Lattice Substitution with Sulfur Leading to Materials with Advanced Properties for Optical Applications Like Full Inorganic UV Protection. <i>Chemistry of Materials</i> , 2012 , 24, 1771-1778	9.6	42
64	Intelligente anorganische Tenside: mehr als Oberflächenspannung. <i>Angewandte Chemie</i> , 2012 , 124, 6097-6101	5.6	16
63	Smart inorganic surfactants: more than surface tension. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5995-9	16.4	60
62	Bolaform surfactants with polyoxometalate head groups and their assembly into ultra-small monolayer membrane vesicles. <i>Nature Communications</i> , 2012 , 3, 1299	17.4	58
61	Shape Anisotropy Influencing Functional Properties: Trigonal Prismatic ZnO Nanoparticles as an Example. <i>Advanced Functional Materials</i> , 2011 , 21, 295-304	15.6	50
60	Materials Surgery [Reactivity Differences of Organic Groups in Hybrids. <i>Advanced Functional Materials</i> , 2011 , 21, 2953-2959	15.6	9
59	Shape Matters: Anisotropy of the Morphology of Inorganic Colloidal Particles [Synthesis and Function. <i>Advanced Functional Materials</i> , 2011 , 21, 3214-3230	15.6	84
58	Effects of primary and secondary surface groups in enantioselective catalysis using nanoporous materials with chiral walls. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6558-65	16.4	70
57	Lithium related deep and shallow acceptors in Li-doped ZnO nanocrystals. <i>Journal of Applied Physics</i> , 2010 , 107, 024311	2.5	62
56	Adsorption in periodically ordered mesoporous organosilica materials studied by in situ small-angle X-ray scattering and small-angle neutron scattering. <i>Langmuir</i> , 2010 , 26, 6583-92	4	28
55	A new class of surfactants with multinuclear, inorganic head groups. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5315-21	16.4	155
54	Metathesis catalysts in confining reaction fields--confinement effects vs. surface effects. <i>Dalton Transactions</i> , 2010 , 577-84	4.3	14
53	Bifunctional Mesoporous Organosilica Materials and Their Application in Catalysis: Cooperative Effects or Not?. <i>Chemistry of Materials</i> , 2010 , 22, 1472-1482	9.6	47
52	Gas phase synthesis of titania with aerogel character and its application as a support in oxidation catalysis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10032		5
51	Monolithic Zinc Oxide Aerogels from Organometallic Sol-Gel Precursors. <i>Chemistry of Materials</i> , 2010 , 22, 5129-5136	9.6	43
50	Molecular Precursor Route to a Metastable Form of Zinc Oxide. <i>Chemistry of Materials</i> , 2010 , 22, 4263-4270	9.6	51
49	Chromium containing zinc oxide materials from organobimetallic precursors. <i>Dalton Transactions</i> , 2010 , 39, 2232-8	4.3	8
48	Organic Ligands Made Porous: Magnetic and Catalytic Properties of Transition Metals Coordinated to the Surfaces of Mesoporous Organosilica. <i>Advanced Functional Materials</i> , 2010 , 20, 1133-1143	15.6	28

47	The molecular path to inorganic materials Zinc oxide and beyond. <i>Inorganica Chimica Acta</i> , 2010 , 363, 4148-4157	2.7	12
46	Metal Oxide Materials from Surfactants with Metal-containing Head Groups. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010 , 636, 2038-2038	1.3	2
45	Dynamical Changes in the Cu/ZnO x Interaction Observed in a Model Methanol Synthesis Catalyst. <i>Catalysis Letters</i> , 2009 , 128, 49-56	2.8	24
44	A Systematic Study on Zinc Oxide Materials Containing Group I Metals (Li, Na, K) Synthesis from Organometallic Precursors, Characterization, and Properties. <i>Chemistry of Materials</i> , 2009 , 21, 3889-3897	9.6	52
43	Nucleation and growth of ZnO in organic solvents--an in situ study. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16601-10	16.4	67
42	Mesoporous Organosilica materials with complex surfaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2071-2071	1.3	
41	Chemistry in confining reaction fields with special emphasis on nanoporous materials. <i>Chemistry - A European Journal</i> , 2008 , 14, 9816-29	4.8	42
40	Amino acid silica hybrid materials with mesoporous structure and enantiopure surfaces. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9513-7	16.4	55
39	Organosilica Materials with Bridging Phenyl Derivatives Incorporated into the Surfaces of Mesoporous Solids. <i>Advanced Functional Materials</i> , 2008 , 18, 1272-1280	15.6	50
38	Amino Acid Silica Hybrid Materials with Mesoporous Structure and Enantiopure Surfaces. <i>Angewandte Chemie</i> , 2008 , 120, 9655-9659	3.6	10
37	Organometallics meet colloid chemistry: a case study in three phases based on molecular carbonyl precursors containing zinc and manganese. <i>Journal of the American Chemical Society</i> , 2007 , 129, 371-5	16.4	37
36	Preparation of high-surface-area zinc oxide with ordered porosity, different pore sizes, and nanocrystalline walls. <i>Chemistry - A European Journal</i> , 2007 , 13, 592-7	4.8	113
35	Self-assembly of methylzinc-polyethylene glycol amphiphiles and their application to materials synthesis. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2426-30	16.4	27
34	Self-Assembly of Methylzinc Polyethylene Glycol Amphiphiles and Their Application to Materials Synthesis. <i>Angewandte Chemie</i> , 2007 , 119, 2478-2482	3.6	9
33	Structure-Property-Function Relationships in Nanoscale Oxide Sensors: A Case Study Based on Zinc Oxide. <i>Advanced Functional Materials</i> , 2007 , 17, 1385-1391	15.6	99
32	Cu/ZnO aggregates in siliceous mesoporous matrices: Development of a new model methanol synthesis catalyst. <i>Journal of Catalysis</i> , 2006 , 241, 446-455	7.3	38
31	On the role of oxygen defects in the catalytic performance of zinc oxide. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2965-9	16.4	204
30	Ber den Einfluss von Sauerstoffdefektstellen auf die katalytische Aktivität von Zinkoxid. <i>Angewandte Chemie</i> , 2006 , 118, 3031-3035	3.6	49

29	Preparation of a Periodically Ordered Mesoporous Organosilica Material Using Chiral Building Blocks. <i>Advanced Materials</i> , 2006 , 18, 1206-1209	24	72
28	Consecutive fragmentations of the cubane-like zinc cluster [CH ₃ Zn(O-i-C ₃ H ₇)] ₄ upon electron ionization. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1049-53	3.6	42
27	Mesosynthesis of ZnO-silica composites for methanol nanocatalysis. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12028-34	16.4	98
26	Molecular encoding at the nanoscale: from complex cubes to bimetallic oxides. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7892-6	16.4	53
25	Molekulare Codierung auf der Nanoskala: von komplexen Cubanen zu Bimetalloxiden. <i>Angewandte Chemie</i> , 2005 , 117, 8104-8109	3.6	16
24	Zinc Oxide Nanoparticles with Defects. <i>Advanced Functional Materials</i> , 2005 , 15, 1945-1954	15.6	441
23	Chemical vapor synthesis of size-selected zinc oxide nanoparticles. <i>Small</i> , 2005 , 1, 540-52	11	135
22	Nanocasting Strategies and Porous Materials 2004 , 950-958		
21	First preparation of nanocrystalline zinc silicate by chemical vapor synthesis using an organometallic single-source precursor. <i>Chemistry - A European Journal</i> , 2004 , 10, 1565-75	4.8	82
20	Mixed micellar phases of nonmiscible surfactants: mesoporous silica with bimodal pore size distribution via the nanocasting process. <i>Langmuir</i> , 2004 , 20, 7811-9	4	81
19	Solventless Acid-Free Synthesis of Mesostructured Titania: Nanovessels for Metal Complexes and Metal Nanoclusters. <i>Advanced Functional Materials</i> , 2003 , 13, 30-36	15.6	48
18	Influence of Spatial Restrictions on Equilibrium Reactions: A Case Study about the Excimer Formation of Pyrene. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5081-5087	3.4	48
17	Redox Behavior of Nanostructured Molybdenum Oxide/Mesoporous Silica Hybrid Materials. <i>Chemistry of Materials</i> , 2003 , 15, 3586-3593	9.6	21
16	Silica/Carbon Nanocomposites: A New Concept for the Design of Solar Absorbers. <i>Advanced Functional Materials</i> , 2002 , 12, 197	15.6	122
15	Nanoporous Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 581-612	1.3	196
14	Hierarchical Porous Carbon Structures from Cellulose Acetate Fibers. <i>Chemistry of Materials</i> , 2002 , 14, 2940-2945	9.6	56
13	Porous materials via nanocasting procedures: innovative materials and learning about soft-matter organization. <i>Chemical Communications</i> , 2002 , 2593-604	5.8	158
12	Nanoporous materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 581-612	1.3	21

11	Colloidal organization and clusters: self-assembly of polyoxometalate-surfactant complexes towards three-dimensional organized structures. <i>ChemPhysChem</i> , 2001 , 2, 457-61	3.2	128
10	From Cyclodextrin Assemblies to Porous Materials by Silica Templating. <i>Angewandte Chemie</i> , 2001 , 113, 4549-4553	3.6	18
9	From Cyclodextrin Assemblies to Porous Materials by Silica Templating We thank the Max-Planck society for funding.. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4417-4421	16.4	147
8	Sub-Nanometer Noble-Metal Particle Host Synthesis in Porous Silica Monoliths. <i>Advanced Materials</i> , 2001 , 13, 1333	24	44
7	Preparation of Porous Silica Materials via Sol-Gel Nanocasting of Nonionic Surfactants: A Mechanistic Study on the Self-Aggregation of Amphiphiles for the Precise Prediction of the Mesopore Size. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10473-10483	3.4	119
6	Cyclodextrin-based Porous Silica Materials as in Situ Chemical Nanoreactors for the Preparation of Variable Metal-Silica Hybrids. <i>Chemistry of Materials</i> , 2001 , 13, 3915-3919	9.6	44
5	The Interplay of Colloidal Organization and Oxo-Cluster Chemistry: Polyoxometalate-Silica Hybrids Materials with a Nanochemical Function. <i>Advanced Materials</i> , 2000 , 12, 1503-1507	24	92
4	Open and Shut Gaps in Molybdenum-Oxygen-Riesenkugeln, -kuben und -rindern mit dem Pentagon als gemeinsamem Strukturelement. <i>Angewandte Chemie</i> , 1999 , 111, 3439-3443	3.6	26
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1	Design of Active Defects in Semiconductors: 3D Electron Diffraction Revealed Novel Organometallic Lead Bromide Phases Containing Ferrocene as Redox Switches. <i>Advanced Functional Materials</i> , 2001 , 11, 1126	15.6	1