Frank Krumeich

List of Publications by Year
in descending order

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338	19,677	11235	17373
papers	citations	73 h-index	126 g-index

378	378	378	27657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal synthesis of conversion-type bismuth fluoride cathodes for high-energy-density Li-ion batteries. Communications Chemistry, 2022, 5, .	2.0	5
2	Redispersion strategy for high-loading carbon-supported metal catalysts with controlled nuclearity. Journal of Materials Chemistry A, 2022, 10, 5953-5961.	5.2	16
3	The Complex Crystal Chemistry of Niobium Tungsten Oxides. Chemistry of Materials, 2022, 34, 911-934.	3.2	22
4	Ceriaâ€Supported Gold Nanoparticles as a Superior Catalyst for Nitrous Oxide Production via Ammonia Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
5	Remarkable stability of a molecular ruthenium complex in PEM water electrolysis. Chemical Science, 2022, 13, 3748-3760.	3.7	11
6	Copperâ€“zinc oxide interface as a methanol-selective structure in Cuâ€“ZnO catalyst during catalytic hydrogenation of carbon dioxide to methanol. Catalysis Science and Technology, 2022, 12, 2703-2716.	2.1	18
7	Controlled Formation of Dimers and Spatially Isolated Atoms in Bimetallic Auâ€Ru Catalysts via Carbonâ€Host Functionalization. Small, 2022, 18, e2200224.	5.2	9
8	Flame Spray Pyrolysis as a Synthesis Platform to Assess Metal Promotion in In₂O₃â€Catalyzed CO₂ Hydrogenation. Advanced Energy Materials, 2022, 12, .	10.2	34
9	Stabilization of Lead-Reduced Metal Halide Perovskite Nanocrystals by High-Entropy Alloying. Journal of the American Chemical Society, 2022, 144, 5864-5870.	6.6	20
10	RÃ¼cktitelbild: Ceriaâ€Supported Gold Nanoparticles as a Superior Catalyst for Nitrous Oxide Production via Ammonia Oxidation (Angew. Chem. 19/2022). Angewandte Chemie, 2022, 134, .	1.6	0
11	ZnO-Promoted Inverse ZrO₂â€“Cu Catalysts for CO₂-Based Methanol Synthesis under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2022, 10, 81-90.	3.2	12
12	Reconfigurable halide perovskite nanocrystal memristors for neuromorphic computing. Nature Communications, 2022, 13, 2074.	5.8	89
13	Anisotropic nanocrystal superlattices overcoming intrinsic light outcoupling efficiency limit in perovskite quantum dot light-emitting diodes. Nature Communications, 2022, 13, 2106.	5.8	34
14	Performance descriptors of nanostructured metal catalysts for acetylene hydrochlorination. Nature Nanotechnology, 2022, 17, 606-612.	15.6	39
15	A General Synthetic Strategy toward Highly Doped Pyridinic Nitrogenâ€Rich Carbons. Advanced Functional Materials, 2021, 31, 2006076.	7.8	35
16	Y-doped ZnO films for acetic acid sensing down to ppb at high humidity. Sensors and Actuators B: Chemical, 2021, 327, 128843.	4.0	28
17	On the structural complexity of tetragonal tungsten bronze type niobium tungsten oxides. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 98-106.	0.6	6
18	Ligand-assisted solid phase synthesis of mixed-halide perovskite nanocrystals for color-pure and efficient electroluminescence. Journal of Materials Chemistry C, 2021, 9, 5771-5778.	2.7	10

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19	Bi₂O₃ boosts brightness, biocompatibility and stability of Mn-doped Ba₃(VO₄)₂ as NIR-II contrast agent. Journal of Materials Chemistry B, 2021, 9, 3038-3046.	2.9	2
20	Sustainable Synthesis of Bimetallic Single Atom Goldâ€Based Catalysts with Enhanced Durability in Acetylene Hydrochlorination. Small, 2021, 17, e2004599.	5.2	25
21	Effect of Cobalt Speciation and the Graphitization of the Carbon Matrix on the CO₂ Electroreduction Activity of Co/N-Doped Carbon Materials. ACS Applied Materials & Interfaces, 2021, 13, 15122-15131.	4.0	13
22	Effect of Short Reducing Pulses on the Dynamic Structure, Activity, and Stability of Pd/Al₂O₃ for Wet Lean Methane Oxidation. ACS Catalysis, 2021, 11, 4870-4879.	5.5	19
23	Mechanistic Study of Carbon Dioxide Hydrogenation over Pd/ZnOâ€Based Catalysts: The Role of Palladiumâ€“Zinc Alloy in Selective Methanol Synthesis. Angewandte Chemie, 2021, 133, 17190-17196.	1.6	4
24	Sparse ab initio x-ray transmission spectrotomography for nanoscopic compositional analysis of functional materials. Science Advances, 2021, 7, .	4.7	16
25	Design of carbon supports for metal-catalyzed acetylene hydrochlorination. Nature Communications, 2021, 12, 4016.	5.8	35
26	Mechanistic Study of Carbon Dioxide Hydrogenation over Pd/ZnOâ€Based Catalysts: The Role of Palladiumâ€“Zinc Alloy in Selective Methanol Synthesis. Angewandte Chemie - International Edition, 2021, 60, 17053-17059.	7.2	32
27	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. ACS Catalysis, 2021, 11, 7371-7382.	5.5	34
28	Time-Resolved XAS Provides Direct Evidence for Oxygen Activation on Cationic Iron in a Bimetallic Pt-FeO_x/Al₂O₃ Catalyst. ACS Catalysis, 2021, 11, 11793-11805.	5.5	16
29	Structural developments during the low-temperature oxidation of Nb7W10O47. Journal of Solid State Chemistry, 2021, 302, 122430.	1.4	3
30	⁵⁷Fe-Enrichment effect on the composition and performance of Fe-based O₂-reduction electrocatalysts. Physical Chemistry Chemical Physics, 2021, 23, 9147-9157.	1.3	10
31	Temperature and Reaction Environment Influence the Nature of Platinum Species Supported on Ceria. ACS Catalysis, 2021, 11, 13041-13049.	5.5	13
32	Sparse X-ray hyperspectral tomography for nanoscopic compositional analysis of VPO catalysts. , 2021, , .		0
33	On the Arrangement of Pentagonal Columns in Tetragonal Tungsten Bronze-Type Nb18W16O93. Crystals, 2021, 11, 1514.	1.0	3
34	Small and Narrowly Distributed Copper Nanoparticles Supported on Carbon Prepared by Surface Organometallic Chemistry for Selective Hydrogenation and CO 2 Electroconversion Processes. ChemCatChem, 2020, 12, 305-313.	1.8	9
35	Defining aluminum-zoning during synthesis of ZSM-5 zeolites. Physical Chemistry Chemical Physics, 2020, 22, 734-739.	1.3	23
36	Role of Zirconia in Indium Oxide-Catalyzed CO₂Hydrogenation to Methanol. ACS Catalysis, 2020, 10, 1133-1145.	5.5	177

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37	Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins. Angewandte Chemie, 2020, 132, 8215-8219.	1.6	0
38	Carrierâ€Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 19807-19812.	1.6	11
39	Innentitelbild: Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins (Angew. Chem. 21/2020). Angewandte Chemie, 2020, 132, 8046-8046.	1.6	0
40	Transformation of titanium carbide into mesoporous titania for catalysed HBr oxidation. Catalysis Science and Technology, 2020, 10, 4072-4083.	2.1	2
41	The unique interplay between copper and zinc during catalytic carbon dioxide hydrogenation to methanol. Nature Communications, 2020, 11, 2409.	5.8	126
42	Hierarchical Structure of NiMo Hydrodesulfurization Catalysts Determined by Ptychographic Xâ€Ray Computed Tomography. Angewandte Chemie - International Edition, 2020, 59, 17266-17271.	7.2	17
43	Silicon oxycarbide-antimony nanocomposites for high-performance Li-ion battery anodes. Nanoscale, 2020, 12, 13540-13547.	2.8	22
44	Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins. Angewandte Chemie - International Edition, 2020, 59, 8138-8142.	7.2	18
45	Undoped SnO₂ as a Support for Ni Species to Boost Oxygen Generation through Alkaline Water Electrolysis. ACS Applied Materials & Interfaces, 2020, 12, 18407-18420.	4.0	17
46	Nanostructuring unlocks high performance of platinum single-atom catalysts for stable vinyl chloride production. Nature Catalysis, 2020, 3, 376-385.	16.1	122
47	Hierarchical Structure of NiMo Hydrodesulfurization Catalysts Determined by Ptychographic Xâ€Ray Computed Tomography. Angewandte Chemie, 2020, 132, 17419-17424.	1.6	0
48	Carrierâ€Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19639-19644.	7.2	36
49	Pd-LaFeO₃ Catalysts in Aqueous Ethanol: Pd Reduction, Leaching, and Structural Transformations in the Presence of a Base. ACS Catalysis, 2020, 10, 3933-3944.	5.5	6
50	Structure Sensitivity and Evolution of Nickel-Bearing Nitrogen-Doped Carbons in the Electrochemical Reduction of CO₂. ACS Catalysis, 2020, 10, 3444-3454.	5.5	20
51	Scalable photonic sources using two-dimensional lead halide perovskite superlattices. Nature Communications, 2020, 11, 387.	5.8	29
52	Thicknessâ€controlled Growth of Silicalite Membranes on Cerium Oxide Supports. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 412-418.	0.6	1
53	Synthesis of all-silica hollow zeolites by selective demetallation. CrystEngComm, 2020, 22, 2845-2848.	1.3	2
54	Performance of Metal-Catalyzed Hydrodebromination of Dibromomethane Analyzed by Descriptors Derived from Statistical Learning. ACS Catalysis, 2020, 10, 6129-6143.	5.5	23

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55	Intergrowth of niobium tungsten oxides of the tetragonal tungsten bronze type. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 913-919.	0.3	9
56	A Detailed Structural Analysis of Cd_xNb₆(O,F)₁₆. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 753-757.	0.6	1
57	Preserved in a Shell: Highâ€Performance Grapheneâ€Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. Angewandte Chemie, 2019, 131, 12425-12432.	1.6	5
58	Silicon Oxycarbideâ€"Tin Nanocomposite as a Highâ€Powerâ€Density Anode for Liâ€Ion Batteries. Advanced Science, 2019, 6, 1901220.	5.6	30
59	Preserved in a Shell: Highâ€Performance Grapheneâ€Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. Angewandte Chemie - International Edition, 2019, 58, 12297-12304.	7.2	53
60	Silicon Oxycarbide: Silicon Oxycarbideâ€"Tin Nanocomposite as a Highâ€Powerâ€Density Anode for Liâ€Ion Batteries (Adv. Sci. 19/2019). Advanced Science, 2019, 6, 1970116.	5.6	1
61	Variation of Aluminium Distribution in Smallâ€Sized ZSMâ€5 Crystals during Desilication. Chemistry - A European Journal, 2019, 25, 15879-15886.	1.7	10
62	110th Anniversary: Synthesis of Plasmonic Silica-Coated TiN Particles. Industrial & Engineering Chemistry Research, 2019, 58, 16610-16619.	1.8	10
63	Anatase TiO₂ Nanorods as Cathode Materials for Aluminum-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 6428-6435.	2.4	40
64	Volcano Trend in Electrocatalytic CO₂ Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. ACS Catalysis, 2019, 9, 10426-10439.	5.5	142
65	Microcarrier-Assisted Inorganic Shelling of Lead Halide Perovskite Nanocrystals. ACS Nano, 2019, 13, 11642-11652.	7.3	46
66	Increasing the activity of copper exchanged mordenite in the direct isothermal conversion of methane to methanol by Pt and Pd doping. Chemical Science, 2019, 10, 167-171.	3.7	17
67	Cryo-TEM and electron tomography reveal leaching-induced pore formation in ZSM-5 zeolite. Journal of Materials Chemistry A, 2019, 7, 1442-1446.	5.2	19
68	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. ACS Sustainable Chemistry and Engineering, 2019, 7, 5223-5230.	3.2	31
69	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. Chemical Science, 2019, 10, 359-369.	3.7	76
70	Heavy atom labeling enables silanol defect visualization in silicalite-1 crystals. Chemical Communications, 2019, 55, 482-485.	2.2	21
71	Copper sulfide nanoparticles as high-performance cathode materials for Mg-ion batteries. Scientific Reports, 2019, 9, 7988.	1.6	64
72	Tailoring Nitrogenâ€Doped Carbons as Hosts for Singleâ€Atom Catalysts. ChemCatChem, 2019, 11, 2812-2820.	1.8	40

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73	Composition and Structure Dependent Mesopore/Macropore Formation in Zeolites by Desilication. Journal of Physical Chemistry C, 2019, 123, 8793-8801.	1.5	19
74	Zeolite Nanoreactor for Investigating Sintering Effects of Cobalt-Catalyzed Fischerâ€“Tropsch Synthesis. Industrial & Engineering Chemistry Research, 2019, 58, 5140-5145.	1.8	15
75	Where Does the Zeolite ZSM-5 Nucleation and Growth Start? The Effect of Aluminum. Crystal Growth and Design, 2019, 19, 2548-2551.	1.4	17
76	The Link between ZSMâ€5 Zeolite Crystallization and Mesopore Formation by Leaching. Chemistry - A European Journal, 2019, 25, 7689-7694.	1.7	12
77	Fe-Based O₂-Reduction Catalysts Synthesized Using Na₂CO₃ as a Pore-Inducing Agent. ACS Applied Energy Materials, 2019, 2, 1469-1479.	2.5	16
78	Guanidinium and Mixed Cesiumâ€“Guanidinium Tin(II) Bromides: Effects of Quantum Confinement and Out-of-Plane Octahedral Tilting. Chemistry of Materials, 2019, 31, 2121-2129.	3.2	24
79	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX₃ (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. Journal of the American Chemical Society, 2019, 141, 19839-19849.	6.6	141
80	Nearâ€UV activated, photostable nanophosphors for in vitro dosimetry and dynamic bioimaging. AICHE Journal, 2018, 64, 2947-2957.	1.8	12
81	Structural Changes in Deactivated Fluid Catalytic Cracking Catalysts Determined by Electron Microscopy. ACS Catalysis, 2018, 8, 4591-4599.	5.5	25
82	Oxidized Coâ€“Sn nanoparticles as long-lasting anode materials for lithium-ion batteries. Nanoscale, 2018, 10, 3777-3783.	2.8	25
83	Monodisperse CoSn₂ and FeSn₂ nanocrystals as high-performance anode materials for lithium-ion batteries. Nanoscale, 2018, 10, 6827-6831.	2.8	52
84	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2018, 8, 837-844.	5.5	209
85	Resonant Ptychographic Tomography Facilitates Three-Dimensional Quantitative Colocalization of Catalyst Components and Chemical Elements. Journal of Physical Chemistry C, 2018, 122, 22920-22929.	1.5	24
86	Bismesitoylphosphinic Acid (BAPOâ€OH): A Ligand for Copper Complexes and Fourâ€Electron Photoreductant for the Preparation of Copper Nanomaterials. Angewandte Chemie, 2018, 130, 7823-7828.	1.6	3
87	Bismesitoylphosphinic Acid (BAPOâ€OH): A Ligand for Copper Complexes and Fourâ€Electron Photoreductant for the Preparation of Copper Nanomaterials. Angewandte Chemie - International Edition, 2018, 57, 7697-7702.	7.2	15
88	SnP nanocrystals as anode materials for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 10958-10966.	5.2	56
89	Highly Efficient, Easily Recoverable, and Recyclable Reâ€“SiO2â€“Fe3O4Catalyst for the Fragmentation of Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 9606-9618.	3.2	17
90	Stable complete methane oxidation over palladium based zeolite catalysts. Nature Communications, 2018, 9, 2545.	5.8	187

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91	Properties Modification of Nanosized Hollow Zeolite Crystals by Desilication. ChemNanoMat, 2018, 4, 992-999.	1.5	25
92	Lignin Fragmentation onto Multifunctional Fe₃O₄@Nb₂O₅@Co@Re Catalysts: The Role of the Composition and Deposition Route of Rhenium. ACS Catalysis, 2017, 7, 3257-3267.	5.5	28
93	Molecularly Tailored Nickel Precursor and Support Yield a Stable Methane Dry Reforming Catalyst with Superior Metal Utilization. Journal of the American Chemical Society, 2017, 139, 6919-6927.	6.6	111
94	Solvothermallyâ€Prepared Cu₂O Electrocatalysts for CO₂ Reduction with Tunable Selectivity by the Introduction of pâ€Block Elements. ChemSusChem, 2017, 10, 1255-1265.	3.6	47
95	Localization and Speciation of Iron Impurities within a Fluid Catalytic Cracking Catalyst. Angewandte Chemie, 2017, 129, 14219-14223.	1.6	8
96	A three-dimensional view of structural changes caused by deactivation of fluid catalytic cracking catalysts. Nature Communications, 2017, 8, 809.	5.8	72
97	Supported Bimetallic NiFe Nanoparticles through Colloid Synthesis for Improved Dry Reforming Performance. ACS Catalysis, 2017, 7, 6942-6948.	5.5	77
98	Localization and Speciation of Iron Impurities within a Fluid Catalytic Cracking Catalyst. Angewandte Chemie - International Edition, 2017, 56, 14031-14035.	7.2	38
99	Kish Graphite Flakes as a Cathode Material for an Aluminum Chlorideâ€“Graphite Battery. ACS Applied Materials & Interfaces, 2017, 9, 28478-28485.	4.0	114
100	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. ACS Nano, 2017, 11, 12210-12218.	7.3	96
101	Origin of the Improved Performance in Lanthanumâ€doped Silicaâ€supported Ni Catalysts. ChemCatChem, 2017, 9, 586-596.	1.8	15
102	Hollow Carbon Nanobubbles: Synthesis, Chemical Functionalization, and Containerâ€Type Behavior in Water. Angewandte Chemie - International Edition, 2016, 55, 8761-8765.	7.2	22
103	Lignin fragmentation over magnetically recyclable composite Co@Nb2O5@Fe3O4 catalysts. Journal of Catalysis, 2016, 339, 209-227.	3.1	37
104	Harnessing Defect-Tolerance at the Nanoscale: Highly Luminescent Lead Halide Perovskite Nanocrystals in Mesoporous Silica Matrixes. Nano Letters, 2016, 16, 5866-5874.	4.5	501
105	Thermal annealing dynamics of carbon-coated LiFePO4 nanoparticles studied by in-situ analysis. Journal of Solid State Chemistry, 2016, 242, 96-102.	1.4	19
106	Selective sensing of isoprene by Ti-doped ZnO for breath diagnostics. Journal of Materials Chemistry B, 2016, 4, 5358-5366.	2.9	99
107	Dissolution and storage stability of nanostructured calcium carbonates and phosphates for nutrition. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	5
108	Isothermal Cyclic Conversion of Methane into Methanol over Copperâ€Exchanged Zeolite at Low Temperature. Angewandte Chemie - International Edition, 2016, 55, 5467-5471.	7.2	184

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109	Crystal symmetry breaking and vacancies in colloidal lead chalcogenide quantum dots. Nature Materials, 2016, 15, 987-994.	13.3	101
110	Phase-controlled synthesis of iron phosphates via phosphation of Î²-FeOOH nanorods. CrystEngComm, 2016, 18, 3174-3185.	1.3	16
111	Merging Single-Atom-Dispersed Silver and Carbon Nitride to a Joint Electronic System via Copolymerization with Silver Tricyanomethanide. ACS Nano, 2016, 10, 3166-3175.	7.3	213
112	A simple one-pot Adams method route to conductive high surface area IrO₂â€“TiO₂ materials. New Journal of Chemistry, 2016, 40, 1834-1838.	1.4	46
113	Frontispiece: Seamless Rim-Functionalization of h-BN with Silica-Experiment and Theoretical Modeling. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
114	Role of Defects in Pore Formation in MFI Zeolites. Journal of Physical Chemistry C, 2015, 119, 5447-5453.	1.5	37
115	Synthesis of Single Crystal Nanoreactor Materials with Multiple Catalytic Functions by Incipient Wetness Impregnation and Ion Exchange. Advanced Materials, 2015, 27, 1919-1923.	11.1	47
116	MoS2 coating on MoO3 nanobelts: A novel approach for a high specific charge electrode for rechargeable Li-ion batteries. Journal of Power Sources, 2015, 279, 636-644.	4.0	29
117	A nanocrystalline nitride as an insertion anode for Li-ion batteries. Journal of Power Sources, 2015, 278, 608-613.	4.0	56
118	Differences Between Individual ZSMâ€5 Crystals in Forming Hollow Single Crystals and Mesopores During Base Leaching. Chemistry - A European Journal, 2015, 21, 6272-6277.	1.7	41
119	A shortcut to garnet-type fast Li-ion conductors for all-solid state batteries. Journal of Materials Chemistry A, 2015, 3, 18636-18648.	5.2	114
120	Seamless Rimâ€Functionalization of hâ€BN with Silicaâ€”Experiment and Theoretical Modeling. Chemistry - A European Journal, 2015, 21, 7662-7667.	1.7	2
121	Structure and reactivity of ceriaâ€“zirconia catalysts for bromine and chlorine production via the oxidation of hydrogen halides. Journal of Catalysis, 2015, 331, 128-137.	3.1	34
122	A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn,) Tj ETQq0 0 0 rgBT /Overlock 10 635-647.	3.2	99
123	Oxidative Dehydrogenation of Ethane with CO₂ over Flame-Made Ga-Loaded TiO₂. ACS Catalysis, 2015, 5, 690-702.	5.5	80
124	Atomically dispersed rhodium on a support: the influence of a metal precursor and a support. Physical Chemistry Chemical Physics, 2014, 16, 26553-26560.	1.3	14
125	Structural Changes of a U₃O₈/ZrO₂ Catalyst During HCl Oxidation â€“ a HAADFâ€STEM Study. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 768-773.	0.6	5
126	Fabrication of Nanoporous Nickel Coatings by Templateâ€Assisted Electrodeposition. ChemElectroChem, 2014, 1, 536-538.	1.7	10

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127	Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silicaâ€Coated Au/Fe₂O₃ Nanoaggregates. Advanced Functional Materials, 2014, 24, 2818-2827.	7.8	99
128	Microwaveâ€Assisted Nonaqueous Synthesis of Doped Ceria Nanoparticles Assembled into Flakes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 733-737.	0.6	9
129	Simultaneous Carbon Coating and Lithiation of Oxides by Contact Reaction. Chemistry - A European Journal, 2014, 20, 5202-5208.	1.7	3
130	The electrochemical activity for nano-LiCoBO3 as a cathode material for Li-ion batteries. Solid State Ionics, 2014, 256, 103-108.	1.3	29
131	Structure, Activity, and Stability of Atomically Dispersed Rh in Methane Steam Reforming. ACS Catalysis, 2014, 4, 1279-1286.	5.5	69
132	Microstructure of a <scp><scp>Ce</scp></scp>_{0.1}<scp><scp>Zr</scp></scp>_{0.9}<scp><scp>O</scp></scp>₂â€“<s Ceramic Matrix Composite for Use in Dentistry. Journal of the American Ceramic Society, 2014, 97, 1602-1609.	1.9	3
133	DNA protection against ultraviolet irradiation by encapsulation in a multilayered SiO2/TiO2assembly. Journal of Materials Chemistry B, 2014, 2, 8504-8509.	2.9	21
134	Cancer Treatment: Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe2O3Nanoaggregates (Adv. Funct. Mater. 19/2014). Advanced Functional Materials, 2014, 24, 2817-2817.	7.8	0
135	Facile synthesis of nano-sized hollow single crystal zeolites under mild conditions. Chemical Communications, 2014, 50, 76-78.	2.2	75
136	Plasmonic biocompatible silverâ€“gold alloyed nanoparticles. Chemical Communications, 2014, 50, 13559-13562.	2.2	50
137	Opposite Face Sensitivity of CeO₂ in Hydrogenation and Oxidation Catalysis. Angewandte Chemie - International Edition, 2014, 53, 12069-12072.	7.2	199
138	Colloidal Tinâ€“Germanium Nanorods and Their Li-Ion Storage Properties. ACS Nano, 2014, 8, 2360-2368.	7.3	66
139	Proton-Promoted Iron Dissolution from Nanoparticles and the Influence by the Local Iron Environment. Journal of Physical Chemistry C, 2014, 118, 24072-24080.	1.5	13
140	A low dimensional composite of hexagonal lithium manganese borate (LiMnBO₃), a cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 18946-18951.	5.2	22
141	Characterization of LiBC by phase-contrast scanning transmission electron microscopy. Micron, 2014, 63, 64-68.	1.1	7
142	Preparation of Sn-doped 2â€“3nm Ni nanoparticles supported on SiO2 via surface organometallic chemistry for low temperature dry reforming catalyst: The effect of tin doping on activity, selectivity and stability. Catalysis Today, 2014, 235, 237-244.	2.2	20
143	New High Capacity Cathode Materials for Rechargeable Li-ion Batteries: Vanadate-Borate Glasses. Scientific Reports, 2014, 4, 7113.	1.6	119
144	Phase-contrast imaging in aberration-corrected scanning transmission electron microscopy. Micron, 2013, 49, 1-14.	1.1	19

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145	Nanocomposite of manganese ferrocyanide and graphene: A promising cathode material for rechargeable lithium ion batteries. Electrochemistry Communications, 2013, 34, 246-249.	2.3	32
146	Solid-State Chemistry of Cuprous Delafossites: Synthesis and Stability Aspects. Chemistry of Materials, 2013, 25, 4423-4435.	3.2	114
147	Broadening and shifting of Bragg reflections of nanoscale-microtwinned LT-Ni3Sn2. Philosophical Magazine, 2013, 93, 4440-4468.	0.7	5
148	Oxidation State of Ce in CeO₂-Promoted Rh/Al₂O₃ Catalysts during Methane Steam Reforming: H₂O Activation and Alumina Stabilization. ACS Catalysis, 2013, 3, 1956-1964.	5.5	44
149	Narrowly dispersed silica supported osmium nanoparticles prepared by an organometallic approach: H2 and CO adsorption stoichiometry and hydrogenolysis catalytic activity. Dalton Transactions, 2013, 42, 12620.	1.6	16
150	Particle size effect in the low temperature reforming of methane by carbon dioxide on silica-supported Ni nanoparticles. Journal of Catalysis, 2013, 297, 27-34.	3.1	224
151	Nano LiMnBO3, a high-capacity cathode material for Li-ion batteries. Journal of Power Sources, 2013, 224, 145-151.	4.0	51
152	Monodisperse and Inorganically Capped Sn and Sn/SnO₂ Nanocrystals for High-Performance Li-Ion Battery Anodes. Journal of the American Chemical Society, 2013, 135, 4199-4202.	6.6	346
153	Investigation of nano-fibrous selenium and its polypyrrole and graphene composite as cathode material for rechargeable Li-batteries. Journal of Power Sources, 2013, 236, 112-117.	4.0	91
154	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. Nano Letters, 2013, 13, 586-593.	4.5	91
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