

Alvaro Mayoral

List of Publications by Year in descending order

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181
papers

6,314
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87888

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#	ARTICLE	IF	CITATIONS
1	Composition-Dependent Cytotoxic and Antibacterial Activity of Biopolymer-Capped Ag/Au Bimetallic Nanoparticles against Melanoma and Multidrug-Resistant Pathogens. <i>Nanomaterials</i> , 2022, 12, 779.	4.1	10
2	GTM-3, an Extra-Large Pore Enantioselective Chiral Zeolitic Catalyst. <i>Journal of the American Chemical Society</i> , 2022, 144, 8249-8256.	13.7	10
3	Rational design of mixed-matrix metal-organic framework membranes for molecular separations. <i>Science</i> , 2022, 376, 1080-1087.	12.6	160
4	HPM-14: A New Germanosilicate Zeolite with Interconnected Extra-Large Pores Plus Odd-Membered and Small Pores**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3438-3442.	13.8	15
5	An Aluminosilicate Zeolite Containing Rings of Tetrahedral Atoms with All Odd Numbers from Five to Eleven. <i>Angewandte Chemie</i> , 2021, 133, 6001-6005.	2.0	4
6	HPM-14: A New Germanosilicate Zeolite with Interconnected Extra-Large Pores Plus Odd-Membered and Small Pores**. <i>Angewandte Chemie</i> , 2021, 133, 3480-3484.	2.0	5
7	An Aluminosilicate Zeolite Containing Rings of Tetrahedral Atoms with All Odd Numbers from Five to Eleven. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5936-5940.	13.8	7
8	Green synthesis of starch-capped Cu ₂ O nanocubes and their application in the direct electrochemical detection of glucose. <i>RSC Advances</i> , 2021, 11, 13711-13721.	3.6	10
9	Impregnating Subnanometer Metallic Nanocatalysts into Self-Pillared Zeolite Nanosheets. <i>Journal of the American Chemical Society</i> , 2021, 143, 6905-6914.	13.7	124
10	Direct Imaging and Location of Pb ²⁺ and K ⁺ in EMT Framework-Type Zeolite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6461-6470.	3.1	6
11	Unveiling unique structural features of the YNU-5 aluminosilicate family. <i>Microporous and Mesoporous Materials</i> , 2021, 317, 110980.	4.4	1
12	Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. <i>Angewandte Chemie</i> , 2021, 133, 14692-14698.	2.0	4
13	Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14571-14577.	13.8	11
14	Designed Synthesis of STA-30: A Small-Pore Zeolite Catalyst with Topology Type SWY. <i>Chemistry of Materials</i> , 2021, 33, 5242-5256.	6.7	6
15	Synthesis of thermally stable SBT and SBS/SBT intergrowth zeolites. <i>Science</i> , 2021, 373, 104-107.	12.6	31
16	Sandwich-Type Zeolite Intergrowths with MFI and the Novel Extra-Large Pore IDM-1 as Ordered End-Members. <i>Chemistry of Materials</i> , 2021, 33, 7869-7877.	6.7	6
17	Metal-catalyst-free gas-phase synthesis of long-chain hydrocarbons. <i>Nature Communications</i> , 2021, 12, 5937.	12.8	7
18	Coating of Magnetite Nanoparticles with Fucoidan to Enhance Magnetic Hyperthermia Efficiency. <i>Nanomaterials</i> , 2021, 11, 2939.	4.1	11

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19	Next generation of nanozymes: A perspective of the challenges to match biological performance. Journal of Applied Physics, 2021, 130, .	2.5	5
20	Breaking the Si/Al Limit of Nanosized Zr^2 Zeolites: Promoting Catalytic Production of Lactide. Chemistry of Materials, 2020, 32, 751-758.	6.7	35
21	Ten Years of Aberration Corrected Electron Microscopy for Ordered Nanoporous Materials. ChemCatChem, 2020, 12, 1248-1269.	3.7	30
22	Pursuit of optimal synthetic conditions for obtaining colloidal zero-valent iron nanoparticles by scanning pulsed laser ablation in liquids. Journal of Industrial and Engineering Chemistry, 2020, 81, 340-351.	5.8	15
23	Core@Satellite Gold Nanoparticle Complexes Grown by Inert Gas-Phase Condensation. Journal of Physical Chemistry C, 2020, 124, 24441-24450.	3.1	8
24	Titelbild: Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na A and Iron in Fe MFI (Angew.) Tj ET Og 0 0 0 rg BT /Overlo	2.0	8
25	Spontaneous Formation of Core@shell Co@Cr Nanoparticles by Gas Phase Synthesis. Applied Nano, 2020, 1, 87-101.	2.0	4
26	Modulation of the Activity of Gold Clusters Immobilized on Functionalized Mesoporous Materials in the Oxidation of Cyclohexene via the Functional Group. The Case of Aminopropyl Moiety. Molecules, 2020, 25, 5756.	3.8	3
27	Structural characterization of HPM-7, a more ordered than expected germanosilicate zeolite. Dalton Transactions, 2020, 49, 7037-7043.	3.3	7
28	Site-Specific Iron Substitution in STA 28 , a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10-Phenanthrolines as Framework-Bound Templates. Angewandte Chemie - International Edition, 2020, 59, 15186-15190.	13.8	4
29	The Chemistry of Cosmic Dust Analogs from C, C $_2$, and C $_2$ H $_2$ in C-rich Circumstellar Envelopes. Astrophysical Journal, 2020, 895, 97.	4.5	30
30	Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na A and Iron in Fe MFI . Angewandte Chemie - International Edition, 2020, 59, 19510-19517.	13.8	28
31	Site-Specific Iron Substitution in STA 28 , a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10-Phenanthrolines as Framework-Bound Templates. Angewandte Chemie, 2020, 132, 15298-15302.	2.0	2
32	Structure Solution and Defect Analysis of an Extra-Large Pore Zeolite with UTL Topology by Electron Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 3350-3356.	4.6	7
33	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19450-19459.	13.8	221
34	Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na A and Iron in Fe MFI . Angewandte Chemie, 2020, 132, 19678-19685.	2.0	2
35	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. Angewandte Chemie - International Edition, 2020, 59, 19403-19413.	13.8	14
36	Synthesis of large-pore zeolites from chiral structure-directing agents with two α -prolinol units. Dalton Transactions, 2020, 49, 9618-9631.	3.3	2

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37	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. <i>Angewandte Chemie</i> , 2020, 132, 19571-19581.	2.0	3
38	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	4.4	333
39	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 19618-19627.	2.0	47
40	Diameter distribution by deconvolution (DdD): absorption spectra as a practical tool for semiconductor nanoparticle PSD determination. <i>Nanoscale Advances</i> , 2019, 1, 3499-3505.	4.6	5
41	Synthesis of 3D Large-Pore Germanosilicate Zeolites Using Imidazolium-Based Long Dications. <i>Chemistry of Materials</i> , 2019, 31, 5484-5493.	6.7	20
42	Vapour-phase-transport rearrangement technique for the synthesis of new zeolites. <i>Nature Communications</i> , 2019, 10, 5129.	12.8	29
43	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. <i>Angewandte Chemie</i> , 2019, 131, 18743-18749.	2.0	26
44	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18570-18576.	13.8	281
45	Green synthesis of cavity-containing manganese oxides with superior catalytic performance in toluene oxidation. <i>Applied Catalysis A: General</i> , 2019, 582, 117107.	4.3	8
46	New Iron Oxide Nanoparticles Catechol-Grafted with Bis(amidoxime)s for Uranium(VI) Depletion of Aqueous Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4911-4919.	0.9	6
47	Preparation of mesoporous Beta zeolite by fluoride treatment in liquid phase. Textural, acid and catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 296-303.	4.4	16
48	Formation and Encapsulation of All-Inorganic Lead Halide Perovskites at Room Temperature in Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2270-2277.	4.6	77
49	The relevance of Brownian relaxation as power absorption mechanism in Magnetic Hyperthermia. <i>Scientific Reports</i> , 2019, 9, 3992.	3.3	79
50	Removal of ⁹⁰ Sr from highly Na ⁺ -rich liquid nuclear waste with a layered vanadosilicate. <i>Energy and Environmental Science</i> , 2019, 12, 1857-1865.	30.8	28
51	Amino Acid-Assisted Construction of Single-Crystalline Hierarchical Nanozeolites via Oriented-Aggregation and Intraparticle Ripening. <i>Journal of the American Chemical Society</i> , 2019, 141, 3772-3776.	13.7	131
52	Observation of Ag Nanoparticles in/on Ag@MIL-100(Fe) Prepared Through Different Procedures. <i>Frontiers in Chemistry</i> , 2019, 7, 686.	3.6	14
53	Palladium doping of In ₂ O ₃ towards a general and selective catalytic hydrogenation of amides to amines and alcohols. <i>Catalysis Science and Technology</i> , 2019, 9, 6965-6976.	4.1	19
54	Innentitelbild: Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes (Angew. Chem. 51/2019). <i>Angewandte Chemie</i> , 2019, 131, 18466-18466.	2.0	0

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55	Tuning the size, composition and structure of Au and Co ₅₀ Au ₅₀ nanoparticles by high-power impulse magnetron sputtering in gas-phase synthesis. <i>Nanotechnology</i> , 2019, 30, 065606.	2.6	11
56	Synthesis and characterization of polymer/silica/QDs fluorescent nanocomposites with potential application as printing toner. <i>Materials Research Express</i> , 2019, 6, 025314.	1.6	2
57	Electrochemical Synthesis and Magnetic Properties of MFe ₂ O ₄ (M = Fe, Mn). <i>Tj ETQq1</i> 1 0.784314 rgBT /O <i>Nanotechnology</i> , 2019, 19, 2008-2015.	0.9	13
58	Microscopy of Nanoporous Crystals. <i>Springer Handbooks</i> , 2019, , 1391-1450.	0.6	5
59	Electron Microscopy Techniques to Study Structure/Function Relationships in Catalytic Materials. , 2019, , 97-128.		2
60	Understanding the role of Ti-rich domains in the stabilization of gold nanoparticles on mesoporous silica-based catalysts. <i>Journal of Catalysis</i> , 2018, 360, 187-200.	6.2	4
61	Synthesis of hybrid magneto-plasmonic nanoparticles with potential use in photoacoustic detection of circulating tumor cells. <i>Mikrochimica Acta</i> , 2018, 185, 130.	5.0	19
62	Selective catalytic cracking of n-hexane to olefins over SSZ-54 fabricated by facile and novel dual templating method. <i>Fuel</i> , 2018, 227, 48-58.	6.4	8
63	Base-free selective oxidation of pectin derived galacturonic acid to galactaric acid using supported gold catalysts. <i>Green Chemistry</i> , 2018, 20, 2763-2774.	9.0	13
64	Synthesis of zeolite A using raw kaolin from Ethiopia and its application in removal of Cr(^{III}) from tannery wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 146-154.	3.2	24
65	Pillaring of layered zeolite precursors with ferrierite topology leading to unusual molecular sieves on the micro/mesoporous border. <i>Dalton Transactions</i> , 2018, 47, 3029-3037.	3.3	16
66	Gold nanoclusters prepared from an eighteenth century two-phases procedure supported on thiol-containing SBA-15 for liquid phase oxidation of cyclohexene with molecular oxygen. <i>Catalysis Today</i> , 2018, 304, 172-180.	4.4	14
67	Highly efficient and selective extraction of uranium from aqueous solution using a magnetic device: succinyl- β -cyclodextrin-APTES@maghemite nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 158-168.	4.3	37
68	Functional Hybrid Nanopaper by Assembling Nanofibers of Cellulose and Sepiolite. <i>Advanced Functional Materials</i> , 2018, 28, 1703048.	14.9	49
69	Stabilization of Nanoparticles Produced by Hydrogenation of Palladium ^{II} -N-Heterocyclic Carbene Complexes on the Surface of Graphene and Implications in Catalysis. <i>ACS Omega</i> , 2018, 3, 15217-15228.	3.5	22
70	Some Efforts Toward Understanding Structural Features of MOF/COF. <i>Israel Journal of Chemistry</i> , 2018, 58, 1157-1163.	2.3	13
71	Gas-phase synthesis of nanoparticles: present status and perspectives. <i>MRS Communications</i> , 2018, 8, 947-954.	1.8	29
72	Zeolite framework functionalisation by tuneable incorporation of various metals into the IPC-2 zeolite. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2746-2755.	6.0	17

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73	Effect of thermal treatment on the photocatalytic behavior of TiO ₂ supported on zeolites. <i>New Journal of Chemistry</i> , 2018, 42, 12001-12007.	2.8	4
74	Sustainable Preparation of MIL-100(Fe) and Its Photocatalytic Behavior in the Degradation of Methyl Orange in Water. <i>Crystal Growth and Design</i> , 2017, 17, 1806-1813.	3.0	251
75	STA-20: An ABC-6 Zeotype Structure Prepared by Co-Templating and Solved via a Hypothetical Structure Database and STEM-ADF Imaging. <i>Chemistry of Materials</i> , 2017, 29, 2180-2190.	6.7	37
76	Structuring of Alkyl-Triazole Bridged Silsesquioxanes. <i>ChemistrySelect</i> , 2017, 2, 432-442.	1.5	20
77	Core@shell, Au@TiO _x nanoparticles by gas phase synthesis. <i>Nanoscale</i> , 2017, 9, 6463-6470.	5.6	29
78	Microwave heating and the fast ADOR process for preparing zeolites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8037-8043.	10.3	8
79	C _s -Corrected STEM Imaging of both Pure and Silver-Supported Metal-Organic Framework MIL-100(Fe). <i>ChemCatChem</i> , 2017, 9, 3497-3502.	3.7	18
80	Controlled growth of nano-hydroxyapatite on stilbite: Defluoridation performance. <i>Microporous and Mesoporous Materials</i> , 2017, 254, 86-95.	4.4	10
81	Assembly-Disassembly-Organization-Reassembly Synthesis of Zeolites Based on <i>cfi</i> -Type Layers. <i>Chemistry of Materials</i> , 2017, 29, 5605-5611.	6.7	60
82	On the Porous Silicate HPM-5. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2525-2531.	2.0	1
83	Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPC-12 from Zeolite UOV. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4324-4327.	13.8	70
84	Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPC-12 from Zeolite UOV. <i>Angewandte Chemie</i> , 2017, 129, 4388-4391.	2.0	12
85	Maghemite nanoparticles bearing di(amidoxime) groups for the extraction of uranium from wastewaters. <i>AIP Advances</i> , 2017, 7, .	1.3	7
86	Stability Assessment of Regenerated Hierarchical ZSM-48 Zeolite Designed by Post-Synthesis Treatment for Catalytic Cracking of Light Naphtha. <i>Energy & Fuels</i> , 2017, 31, 14097-14103.	5.1	27
87	Control of reactivity through chemical order in very small RuRe nanoparticles. <i>Dalton Transactions</i> , 2017, 46, 15070-15079.	3.3	8
88	Nanostructured carbon-metal hybrid aerogels from bacterial cellulose. <i>RSC Advances</i> , 2017, 7, 42203-42210.	3.6	9
89	Effect of the Pt-Pd molar ratio in bimetallic catalysts supported on sulfated zirconia on the gas-phase hydrodechlorination of chloromethanes. <i>Journal of Catalysis</i> , 2017, 352, 562-571.	6.2	25
90	Sepiolite nanoplatform for the simultaneous assembly of magnetite and zinc oxide nanoparticles as photocatalyst for improving removal of organic pollutants. <i>Journal of Hazardous Materials</i> , 2017, 340, 281-290.	12.4	57

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91	Magnetite as a platform material in the detection of glucose, ethanol and cholesterol. Sensors and Actuators B: Chemical, 2017, 238, 693-701.	7.8	25
92	Recent Advances on Imaging Porous Frameworks by Electron Microscopy Methods. Microscopy and Microanalysis, 2017, 23, 1798-1799.	0.4	0
93	Nano-crystalline titanium(IV)tungstomolybdate cation exchanger: Synthesis, characterization and ion exchange properties. Journal of Environmental Chemical Engineering, 2017, 5, 1004-1014.	6.7	9
94	Structural analysis of IPC zeolites and related materials using positron annihilation spectroscopy and high-resolution argon adsorption. Physical Chemistry Chemical Physics, 2016, 18, 15269-15277.	2.8	21
95	Synthesis and structural characterization of Zn _x Fe _{3-x} O ₄ ferrite nanoparticles obtained by an electrochemical method. RSC Advances, 2016, 6, 40067-40076.	3.6	62
96	Aberration-corrected STEM analysis of the RHO family of zeolites with embedded isorecticular structures. Microporous and Mesoporous Materials, 2016, 236, 129-133.	4.4	6
97	Imaging the Atomic Position of Light Cations in a Porous Network and the Europium(III) Ion Exchange Capability by Aberration-Corrected Electron Microscopy. Angewandte Chemie - International Edition, 2016, 55, 16127-16131.	13.8	24
98	Imaging the Atomic Position of Light Cations in a Porous Network and the Europium(III) Ion Exchange Capability by Aberration-Corrected Electron Microscopy. Angewandte Chemie, 2016, 128, 16361-16365.	2.0	11
99	Synthesis and characterization of manganese ferrite nanoparticles obtained by electrochemical/chemical method. Materials and Design, 2016, 111, 646-650.	7.0	37
100	Strain mapping accuracy improvement using super-resolution techniques. Journal of Microscopy, 2016, 262, 50-58.	1.8	9
101	Chiral Copper(II) Bis(oxazoline) Complexes Directly Coordinated to Amine-Functionalized Phenylene/Biphenylene Periodic Mesoporous Organosilicas as Heterogeneous Catalysts. European Journal of Inorganic Chemistry, 2016, 2016, 413-421.	2.0	5
102	Enhanced photocatalytic activity of TiO ₂ supported on zeolites tested in real wastewaters from the textile industry of Ethiopia. Microporous and Mesoporous Materials, 2016, 225, 88-97.	4.4	85
103	Synthesis of "unfeasible" zeolites. Nature Chemistry, 2016, 8, 58-62.	13.6	186
104	Protocol optimization for the mild detemplation of mesoporous silica nanoparticles resulting in enhanced texture and colloidal stability. Microporous and Mesoporous Materials, 2016, 220, 110-119.	4.4	5
105	Validity of the Néel-Arrhenius model for highly anisotropic Co _x Fe _{3-x} O ₄ nanoparticles. Journal of Applied Physics, 2015, 118, .	2.5	48
106	Atomic Observations of Microporous Materials Highly Unstable under the Electron Beam: The Cases of Ti-Doped AlPO ₄ and Zn-MOF-74. ChemCatChem, 2015, 7, 3719-3724.	3.7	38
107	Removal of chromium(VI) using nano-hydrotalcite/SiO ₂ composite. Journal of Environmental Chemical Engineering, 2015, 3, 1555-1561.	6.7	28
108	Silica promoted self-assembled mesoporous aluminas. Impact of the silica precursor on the structural, textural and acidic properties. Catalysis Today, 2015, 250, 115-122.	4.4	7

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109	High-Temperature Stable Gold Nanoparticle Catalysts for Application under Severe Conditions: The Role of TiO ₂ Nanodomains in Structure and Activity. ACS Catalysis, 2015, 5, 1078-1086.	11.2	34
110	Metal organic framework synthesis in the presence of surfactants: towards hierarchical MOFs?. CrystEngComm, 2015, 17, 1693-1700.	2.6	78
111	A novel Co@Au structure formed in bimetallic core@shell nanoparticles. Chemical Communications, 2015, 51, 8442-8445.	4.1	55
112	Beyond the H ₂ /CO ₂ upper bound: one-step crystallization and separation of nano-sized ZIF-11 by centrifugation and its application in mixed matrix membranes. Journal of Materials Chemistry A, 2015, 3, 6549-6556.	10.3	99
113	Amino-modified periodic mesoporous biphenylene-silica. Microporous and Mesoporous Materials, 2015, 217, 167-172.	4.4	12
114	Spontaneous formation of Au-Pt alloyed nanoparticles using pure nano-counterparts as starters: a ligand and size dependent process. Nanoscale, 2015, 7, 10152-10161.	5.6	37
115	High Specific Absorption Rate and Transverse Relaxivity Effects in Manganese Ferrite Nanoparticles Obtained by an Electrochemical Route. Journal of Physical Chemistry C, 2015, 119, 6828-6834.	3.1	53
116	Zeolites are no longer a challenge: Atomic resolution data by Aberration-corrected STEM. Micron, 2015, 68, 146-151.	2.2	25
117	Real-time monitoring of breathing of MIL-53(Al) by environmental SEM. Microporous and Mesoporous Materials, 2015, 203, 17-23.	4.4	33
118	Zeolites and Mesoporous Crystals Under the Electron Microscope. , 2015, , 93-138.		2
119	Location of laccase in ordered mesoporous materials. APL Materials, 2014, 2, .	5.1	8
120	Chiral periodic mesoporous copper(II) bis(oxazoline) phenylene-silica: A highly efficient and reusable asymmetric heterogeneous catalyst. Journal of Catalysis, 2014, 320, 63-69.	6.2	9
121	Solvothermal synthesis of disordered mesoporous materials based on a Si-N framework in ionic liquids. Microporous and Mesoporous Materials, 2014, 186, 146-154.	4.4	4
122	Few-layer graphene by assisted-exfoliation of graphite with layered silicate. Carbon, 2014, 73, 99-105.	10.3	33
123	New insights into the properties and interactions of carbon chains as revealed by HRTEM and DFT analysis. Carbon, 2014, 66, 436-441.	10.3	58
124	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 521-536.	1.2	14
125	3D reconstruction of atomic structures from high angle annular dark field (HAADF) STEM images and its application on zeolite silicalite-1. Dalton Transactions, 2014, 43, 14158-14163.	3.3	12
126	The ultimate step towards a tailored engineering of core@shell and core@shell@shell nanoparticles. Nanoscale, 2014, 6, 13483-13486.	5.6	101

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127	Tuning Deposition of Magnetic Metallic Nanoparticles from Periodic Pattern to Thin Film Entrainment by Dip Coating Method. Langmuir, 2014, 30, 9028-9035.	3.5	7
128	Development of exfoliated layered stannosilicate for hydrogen adsorption. International Journal of Hydrogen Energy, 2014, 39, 13180-13188.	7.1	11
129	Exploratory Catalyst Screening Studies on the Base Free Conversion of Glycerol to Lactic Acid and Glyceric Acid in Water Using Bimetallic Au-Pt Nanoparticles on Acidic Zeolites. Topics in Catalysis, 2014, 57, 1445-1453.	2.8	29
130	Au deposited on CeO ₂ prepared by a nanocasting route: A high activity catalyst for CO oxidation. Journal of Catalysis, 2014, 317, 167-175.	6.2	34
131	Generation of gold nanoparticles according to procedures described in the eighteenth century. Gold Bulletin, 2014, 47, 161-165.	2.4	11
132	Nanoscaled M-MOF-74 Materials Prepared at Room Temperature. Crystal Growth and Design, 2014, 14, 2479-2487.	3.0	155
133	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. Nature Chemistry, 2013, 5, 775-781.	13.6	394
134	Beyond gold: rediscovering tetrakis-(hydroxymethyl)-phosphonium chloride (THPC) as an effective agent for the synthesis of ultra-small noble metal nanoparticles and Pt-containing nanoalloys. RSC Advances, 2013, 3, 10427.	3.6	56
135	Location of enzyme in lipase-SBA-12 hybrid biocatalyst. Journal of Molecular Catalysis B: Enzymatic, 2013, 90, 23-25.	1.8	14
136	Synthesis and magnetic behavior of ultra-small bimetallic FeCo/graphite nanoparticles. Nanotechnology, 2013, 24, 505702.	2.6	34
137	Aberration-Corrected STEM Analysis of a Cubic Cd Array Encapsulated in Zeolite A. Journal of Physical Chemistry C, 2013, 117, 24485-24489.	3.1	25
138	Photoluminescence Enhancement of InAs(Bi) Quantum Dots by Bi Clustering. Applied Physics Express, 2013, 6, 042103.	2.4	15
139	Platinum Electrodeposition on Unsupported Single Wall Carbon Nanotubes and Its Application as Methane Sensing Material. Journal of the Electrochemical Society, 2013, 160, H98-H104.	2.9	29
140	Designing Functionalized Mesoporous Materials for Enzyme Immobilization: Locating Enzymes by Using Advanced TEM Techniques. ChemCatChem, 2013, 5, 903-909.	3.7	27
141	Thermal Diffusion at Nanoscale: From CoAu Alloy Nanoparticles to Co@Au Core/Shell Structures. Journal of Physical Chemistry C, 2013, 117, 3101-3108.	3.1	35
142	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. ChemCatChem, 2013, 5, 2595-2598.	3.7	31
143	Spatially-Resolved EELS Analysis of Antibody Distribution on Biofunctionalized Magnetic Nanoparticles. ACS Nano, 2013, 7, 4006-4013.	14.6	32
144	On the influence of diphosphine ligands on the chemical order in small RuPt nanoparticles: combined structural and surface reactivity studies. Dalton Transactions, 2013, 42, 372-382.	3.3	23

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145	Micron-Sized Single-Crystal-like CoAPO-5/Carbon Composites Leading to Hierarchical CoAPO-5 with Both Inter- and Intracrystalline Mesoporosity. <i>Crystal Growth and Design</i> , 2013, 13, 2476-2485.	3.0	6
146	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe _x Co _{3-x} O ₄ nanolayers. <i>Nanoscale</i> , 2013, 5, 5561.	5.6	12
147	Atomic resolution analysis of porous solids: A detailed study of silver ion-exchanged zeolite A. <i>Microporous and Mesoporous Materials</i> , 2013, 166, 117-122.	4.4	52
148	Nanoscale mapping of plasmon resonances of functional multibranched gold nanoparticles. <i>Chemical Communications</i> , 2012, 48, 8667.	4.1	7
149	Platinum Electrodeposition on Unsupported Carbon Nano-Onions. <i>Langmuir</i> , 2012, 28, 17202-17210.	3.5	49
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