Johan A Martens

List of Publications by Year
in descending order

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477	24,401	6233 80	13338 130
papers	citations	h-index	g-index

514	514	514	23042
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dispersing carbomers, mixing technology matters!. RSC Advances, 2022, 12, 7830-7834.	1.7	3
2	Matching emerging formic acid synthesis processes with application requirements. Green Chemistry, 2022, 24, 2287-2295.	4.6	21
3	Energyâ€Efficient Smallâ€Scale Ammonia Synthesis Process with Plasmaâ€Enabled Nitrogen Oxidation and Catalytic Reduction of Adsorbed NO_x. ChemSusChem, 2022, 15, .	3.6	25
4	Hierarchical COK-X Materials for Applications in Catalysis and Adsorptive Separation and Controlled Release. Frontiers in Chemical Engineering, 2022, 4, .	1.3	4
5	Isotopological Fingerprinting Using ¹H/D Scrambling Identifies the Stereochemistry of Hyperpolarization Catalysts Transferring Spin Polarization from Parahydrogen to Substrates Using Signal Amplification by Reversible Exchange. Journal of Physical Chemistry Letters, 2022, 13, 3516-3522.	2.1	3
6	High-entropy perovskite oxides: A versatile class of materials for nitrogen reduction reactions. Science China Materials, 2022, 65, 2711-2720.	3.5	13
7	Selective catalytic reduction of NO_x with ammonia (NH₃-SCR) over copper loaded LEV type zeolites synthesized with different templates. Physical Chemistry Chemical Physics, 2022, 24, 15428-15438.	1.3	4
8	HSIL-Based Synthesis of Ultracrystalline K,Na-JBW, a Zeolite Exhibiting Exceptional Framework Ordering and Flexibility. Chemistry of Materials, 2022, 34, 7159-7166.	3.2	5
9	Ion-Pairs in Aluminosilicate-Alkali Synthesis Liquids Determine the Aluminum Content and Topology of Crystallizing Zeolites. Chemistry of Materials, 2022, 34, 7150-7158.	3.2	13
10	Nucleation of Porous Crystals from Ion-Paired Prenucleation Clusters. Chemistry of Materials, 2022, 34, 7139-7149.	3.2	11
11	A multi-perspective analysis of microclimate dynamics for air-based solar hydrogen production. Heliyon, 2022, 8, e09883.	1.4	4
12	Controlled graphite surface functionalization using contact and remote photocatalytic oxidation. Carbon, 2021, 172, 637-646.	5.4	9
13	CuO supported on COK-12 and SBA-15 ordered mesoporous materials for temperature swing SOx adsorption. Fuel Processing Technology, 2021, 211, 106586.	3.7	8
14	Hierarchical ZIF-8 composite membranes: Enhancing gas separation performance by exploiting molecular dynamics in hierarchical hybrid materials. Journal of Membrane Science, 2021, 620, 118943.	4.1	15
15	Selective electrochemical reduction of CO₂ to formic acid in a gas phase reactor with by-product recirculation. Sustainable Energy and Fuels, 2021, 5, 1867-1873.	2.5	5
16	Super-ions of sodium cations with hydrated hydroxide anions: inorganic structure-directing agents in zeolite synthesis. Materials Horizons, 2021, 8, 2576-2583.	6.4	16
17	Covalent graphite modification by low-temperature photocatalytic oxidation using a titanium dioxide thin film prepared by atomic layer deposition. Catalysis Science and Technology, 2021, 11, 6724-6731.	2.1	1
18	ALD Pt nanoparticles and thin-film coatings enhancing the stability and performance of silicon photocathodes for solar water splitting. Sustainable Energy and Fuels, 2021, 5, 3115-3123.	2.5	2

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19	Hierarchical ISI-1 zeolite catalyst for hydroconversion of long-chain paraffins. Catalysis Science and Technology, 2021, 11, 1519-1525.	2.1	4
20	Impact of the Spatial Distribution of Active Material on Bifunctional Hydrocracking. Industrial & Engineering Chemistry Research, 2021, 60, 6357-6378.	1.8	6
21	Chlorination of a Zeolitic-Imidazolate Framework Tunes Packing and van der Waals Interaction of Carbon Dioxide for Optimized Adsorptive Separation. Journal of the American Chemical Society, 2021, 143, 4962-4968.	6.6	21
22	Tailoring the d-Band Center of Double-Perovskite LaCo‹i›‹sub›x‹/sub›‹/i›Ni‹sub›1â€“‹i›x‹/i›‹/sub›O‹sub›3‹/sub› Nanorods for High Activity in Artificial N‹sub›2‹/sub› Fixation. ACS Applied Materials & Interfaces, 2021, 13, 13347-13353.	4.0	14
23	‹sup›1‹/sup›H Diffusion-Ordered Nuclear Magnetic Resonance Spectroscopic Analysis of Water-Extractable Arabinoxylan in Wheat (‹i›Triticum aestivum‹/i› L.) Flour. Journal of Agricultural and Food Chemistry, 2021, 69, 3912-3922.	2.4	5
24	Synthesis of a New Zeolite, Intergrowth of Erionite and Chabazite. , 2021, 3, 658-662.		4
25	Longâ€Term Generation of Longitudinal Spin Order Controlled by Ammonia Ligation Enables Rapid SABRE Hyperpolarized 2D NMR. ChemPhysChem, 2021, 22, 1170-1177.	1.0	4
26	Longâ€Term Generation of Longitudinal Spin Order Controlled by Ammonia Ligation Enables Rapid SABRE Hyperpolarized 2D NMR. ChemPhysChem, 2021, 22, 1150-1150.	1.0	2
27	Non-Isothermal Kinetic Model of Water Vapor Adsorption on a Desiccant Bed for Harvesting Water from Atmospheric Air. Industrial & Engineering Chemistry Research, 2021, 60, 11812-11823.	1.8	3
28	Hydroconversion of Octylcyclohexane over a Bifunctional Pt/USY Zeolite Catalyst. Energy & Fuels, 2021, 35, 13955-13966.	2.5	3
29	Insights on a Hierarchical MFI Zeolite: A Combined Spectroscopic and Catalytic Approach for Exploring the Multilevel Porous System Down to the Active Sites. ACS Applied Materials & Interfaces, 2021, 13, 49114-49127.	4.0	5
30	Hydrogen Clathrates: Next Generation Hydrogen Storage Materials. Energy Storage Materials, 2021, 41, 69-107.	9.5	89
31	Spherical coreâ€“shell alumina support particles for model platinum catalysts. Nanoscale, 2021, 13, 4221-4232.	2.8	5
32	Interfacial study of clathrates confined in reversed silica pores. Journal of Materials Chemistry A, 2021, 9, 21835-21844.	5.2	8
33	Shape selectivity effects in the hydroconversion of perhydrophenanthrene over bifunctional catalysts. Catalysis Science and Technology, 2021, 11, 7667-7682.	2.1	4
34	Fresh water production from atmospheric air: Technology and innovation outlook. IScience, 2021, 24, 103266.	1.9	18
35	NMR Crystallography Reveals Carbonate Induced Alâ€Ordering in ZnAl Layered Double Hydroxide. Chemistry - A European Journal, 2021, 27, 15944-15953.	1.7	9
36	Implant functionalization with mesoporous silica: A promising antibacterial strategy, but does such an implant osseointegrate?. Clinical and Experimental Dental Research, 2021, 7, 502-511.	0.8	9

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37	IZM-7: A new stable aluminosilicogermanate with a promising catalytic activity. Journal of Catalysis, 2021, , .	3.1	1
38	High-Performance CO₂-Selective Hybrid Membranes by Exploiting MOF-Breathing Effects. ACS Applied Materials & Interfaces, 2020, 12, 2952-2961.	4.0	32
39	Structural parameters governing low temperature activity of small pore copper zeolites in NH3-SCR. Journal of Catalysis, 2020, 390, 224-236.	3.1	21
40	Mechanistic aspects of n-paraffins hydrocracking: Influence of zeolite morphology and acidity of Pd(Pt)/ZSM-5 catalysts. Journal of Catalysis, 2020, 389, 544-555.	3.1	24
41	¹³C-DOSY-TOSY NMR Correlation for In Situ Analysis of Structure, Size Distribution, and Dynamics of Prebiotic Oligosaccharides. Journal of Agricultural and Food Chemistry, 2020, 68, 3250-3259.	2.4	2
42	Trace Level Detection and Quantification of Crystalline Silica in an Amorphous Silica Matrix with Natural Abundance ²⁹Si NMR. Analytical Chemistry, 2020, 92, 13004-13009.	3.2	8
43	Towards Green Ammonia Synthesis through PlasmaâEDriven Nitrogen Oxidation and Catalytic Reduction. Angewandte Chemie, 2020, 132, 24033-24037.	1.6	20
44	Towards Green Ammonia Synthesis through PlasmaâEDriven Nitrogen Oxidation and Catalytic Reduction. Angewandte Chemie - International Edition, 2020, 59, 23825-23829.	7.2	58
45	Moving Electrode Impedance Spectroscopy for Accurate Conductivity Measurements of Corrosive Ionic Media. ACS Sensors, 2020, 5, 3392-3397.	4.0	9
46	N₂ Electroreduction to NH₃ by Selenium VacancyâERich ReSe₂ Catalysis at an Abrupt Interface. Angewandte Chemie - International Edition, 2020, 59, 13320-13327.	7.2	127
47	N₂ Electroreduction to NH₃ by Selenium VacancyâERich ReSe₂ Catalysis at an Abrupt Interface. Angewandte Chemie, 2020, 132, 13422-13429.	1.6	18
48	Hyperpolarized Magnetic Resonance of Exchangeable Protons Using Parahydrogen and Aminosilane. Journal of Physical Chemistry C, 2020, 124, 14541-14549.	1.5	10
49	Energy-Efficient Ammonia Production from Air and Water Using Electrocatalysts with Limited Faradaic Efficiency. ACS Energy Letters, 2020, 5, 1124-1127.	8.8	29
50	Water as a tuneable solvent: a perspective. Chemical Society Reviews, 2020, 49, 2557-2569.	18.7	51
51	Energy performance and climate dependency of technologies for fresh water production from atmospheric water vapour. Environmental Science: Water Research and Technology, 2020, 6, 2016-2034.	1.2	41
52	Ab initio investigation of the relative stability of silicogermanates and their (Alumino)Silicates counterparts. Microporous and Mesoporous Materials, 2020, 306, 110425.	2.2	3
53	Hydroconversion of Perhydrophenanthrene over Bifunctional Pt/HâEUSY Zeolite Catalyst. ChemCatChem, 2020, 12, 3477-3488.	1.8	9
54	Creation of gallium acid and platinum metal sites in bifunctional zeolite hydroisomerization and hydrocracking catalysts by atomic layer deposition. Catalysis Science and Technology, 2020, 10, 1778-1788.	2.1	13

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55	Material properties determining insecticidal activity of activated carbon on the pharaoh ant (Monomorium pharaonis). Journal of Pest Science, 2019, 92, 643-652.	1.9	4
56	Low-temperature activation of carbon black by selective photocatalytic oxidation. Nanoscale Advances, 2019, 1, 2873-2880.	2.2	14
57	A Porous POSiSil Suited for Pressureâ€Driven Reversible Confinement of Solutions: PSSâ€2. Chemistry - A European Journal, 2019, 25, 12957-12965.	1.7	5
58	Alumina: discriminative analysis using 3D correlation of solid-state NMR parameters. Chemical Society Reviews, 2019, 48, 134-156.	18.7	85
59	Highly active oxygen evolution reaction model electrode based on supported gas-phase NiFe clusters. Catalysis Today, 2019, 334, 59-67.	2.2	20
60	Evaluation of hop (Humulus lupulus) as a repellent for the management of Drosophila suzukii. Crop Protection, 2019, 124, 104839.	1.0	16
61	Tracking Structural Phase Transitions in Leadâ€Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	11.1	88
62	Catalytic activation of all-silica COK-14 zeolite through alumination and particle size reduction using wet ball milling. Catalysis Today, 2019, 334, 3-12.	2.2	8
63	â€œClickâ€•Silicaâ€Supported Sulfonic Acid Catalysts with Variable Acid Strength and Surface Polarity. Chemistry - A European Journal, 2019, 25, 6753-6762.	1.7	16
64	Honeycomb-shaped carbon nanotube supports for BiVO4 based solar water splitting. Nanoscale, 2019, 11, 22964-22970.	2.8	15
65	Bifunctional earth-abundant phosphate/phosphide catalysts prepared via atomic layer deposition for electrocatalytic water splitting. Nanoscale Advances, 2019, 1, 4166-4172.	2.2	24
66	Evolution of the crystal growth mechanism of zeolite W (MER) with temperature. Microporous and Mesoporous Materials, 2019, 274, 379-384.	2.2	23
67	Stability of vapor phase water electrolysis cell with anion exchange membrane. Catalysis Today, 2019, 334, 243-248.	2.2	5
68	Solidâ€state NMR tools for the structural characterization of POSiSils: ²⁹Si sensitivity improvement with MCâ€CP and 2D ²⁹Siâ€“²⁹Si DQâ€SQ at natural abundance. Magnetic Resonance in Chemistry, 2019, 57, 224-229.	1.1	6
69	An improved design to capture magnetic microparticles for capillary electrophoresis based immobilized microenzyme reactors. Electrophoresis, 2018, 39, 981-988.	1.3	14
70	Reversible room temperature ammonia gas absorption in pore water of microporous silicaâ€“alumina for sensing applications. Physical Chemistry Chemical Physics, 2018, 20, 13528-13536.	1.3	13
71	Porous multi-junction thin-film silicon solar cells for scalable solar water splitting. Solar Energy Materials and Solar Cells, 2018, 182, 196-203.	3.0	18
72	Periodic mesoporous organosilicas as porous matrix for heterogeneous lyophobic systems. Microporous and Mesoporous Materials, 2018, 260, 166-171.	2.2	14

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73	Interfacial Water Drives Improved Proton Transport in Siliceous Nanocomposite Nafion Thin Films. ChemPhysChem, 2018, 19, 538-546.	1.0	3
74	Material properties determining the insecticidal activity of highly divided porous materials on the pharaoh ant (Monomorium pharaonis). Pest Management Science, 2018, 74, 1374-1385.	1.7	6
75	Analysis of Cuticular Lipids of the Pharaoh Ant (Monomorium pharaonis) and Their Selective Adsorption on Insecticidal Zeolite Powders. International Journal of Molecular Sciences, 2018, 19, 2797.	1.8	2
76	Low-cost disposable high-pressure setup for in situ X-ray experiments. Journal of Synchrotron Radiation, 2018, 25, 1893-1894.	1.0	4
77	EU-7 zeolite: a synthetic BIK type zeolite with high hydrothermal stability. Chemical Communications, 2018, 54, 5626-5629.	2.2	6
78	Harvesting Hydrogen Gas from Air Pollutants with an Unbiased Gas Phase Photoelectrochemical Cell. ChemSusChem, 2017, 10, 1413-1418.	3.6	20
79	Hierarchical self-supported ZnAlEu LDH nanotubes hosting luminescent CdTe quantum dots. Chemical Communications, 2017, 53, 7341-7344.	2.2	19
80	Rationalizing Acid Zeolite Performance on the Nanoscale by Correlative Fluorescence and Electron Microscopy. ACS Catalysis, 2017, 7, 5234-5242.	5.5	19
81	Alternating Copolymer of Double Four Ring Silicate and Dimethyl Silicone Monomerâ€“PSSâ€¦. Chemistry - A European Journal, 2017, 23, 11286-11293.	1.7	5
82	Double-Four-Ring [Si₈O₁₂][OH]₈ Cyclosilicate and Functionalized Spherosilicate Synthesis from [N(n-C₄H₉)₄]H₇[Si₈O₂₀]Â·3.33H₂O Cyclosilicate Hydrate Crystals. Chemistry of Materials, 2017, 29, 5063-5069.	3.2	7
83	Solvent Polarity-Induced Pore Selectivity in H-ZSM-5 Catalysis. ACS Catalysis, 2017, 7, 4248-4252.	5.5	24
84	The Chemical Route to a Carbon Dioxide Neutral World. ChemSusChem, 2017, 10, 1039-1055.	3.6	174
85	1D-2D-3D Transformation Synthesis of Hierarchical Metalâ€“Organic Framework Adsorbent for Multicomponent Alkane Separation. Journal of the American Chemical Society, 2017, 139, 819-828.	6.6	62
86	Strategies for Enhancing the Catalytic Performance of Metalâ€“Organic Frameworks in the Fixation of CO₂ into Cyclic Carbonates. ChemSusChem, 2017, 10, 1283-1291.	3.6	72
87	Postsynthetic High-Alumina Zeolite Crystal Engineering in Organic-Free Hyper-Alkaline Media. Chemistry of Materials, 2017, 29, 629-638.	3.2	17
88	Impact of Amino Acids on the Isomerization of the Aluminum Tridecamer Al₁₃. Inorganic Chemistry, 2017, 56, 12401-12409.	1.9	10
89	Vapor-fed solar hydrogen production exceeding 15% efficiency using earth abundant catalysts and anion exchange membrane. Sustainable Energy and Fuels, 2017, 1, 2061-2065.	2.5	37
90	Independent tuning of size and coverage of supported Pt nanoparticles using atomic layer deposition. Nature Communications, 2017, 8, 1074.	5.8	95

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91	Plasma-Enhanced Atomic Layer Deposition of Silver Using Ag(fod)(PEt₃) and NH₃-Plasma. Chemistry of Materials, 2017, 29, 7114-7121.	3.2	20
92	Highly selective gas separation membrane using in situ amorphised metalâ€“organic frameworks. Energy and Environmental Science, 2017, 10, 2342-2351.	15.6	137
93	Absolute Quantification of Water in Microporous Solids with ¹H Magic Angle Spinning NMR and Standard Addition. Analytical Chemistry, 2017, 89, 6940-6943.	3.2	22
94	Photocatalysis assisted simultaneous carbon oxidation and NOx reduction. Applied Catalysis B: Environmental, 2017, 202, 381-387.	10.8	21
95	Interfacial synthesis of ZIF-8 membranes with improved nanofiltration performance. Journal of Membrane Science, 2017, 523, 561-566.	4.1	107
96	Monolithic solar water splitting: introducing porosity in multijunction solar cells with minimal degradation to enable ionic shortcuts. , 2017, , .		0
97	Changes in DNA Methylation in Mouse Lungs after a Single Intra-Tracheal Administration of Nanomaterials. PLoS ONE, 2017, 12, e0169886.	1.1	47
98	InÂVivo Performance of Fenofibrate Formulated With Ordered Mesoporous Silica Versus 2-Marketed Formulations: A Comparative Bioavailability Study in Beagle Dogs. Journal of Pharmaceutical Sciences, 2016, 105, 2381-2385.	1.6	21
99	PDMS membranes containing ZIF-coated mesoporous silica spheres for efficient ethanol recovery via pervaporation. Journal of Materials Chemistry A, 2016, 4, 12790-12798.	5.2	60
100	Synthesis of aluminum-containing hierarchical mesoporous materials with columnar mesopore ordering by evaporation induced self-assembly. Microporous and Mesoporous Materials, 2016, 234, 186-195.	2.2	7
101	In-situ Growth of Platinum with Hierarchical Porosity for Low Impedance Biomedical Microelectrode Fabrication. Procedia Engineering, 2016, 168, 1122-1126.	1.2	0
102	Hydroisomerization and hydrocracking activity enhancement of a hierarchical ZSM-5 zeolite catalyst via atomic layer deposition of aluminium. Catalysis Science and Technology, 2016, 6, 6177-6186.	2.1	15
103	Minimization of Ionic Transport Resistance in Porous Monoliths for Application in Integrated Solar Water Splitting Devices. Journal of Physical Chemistry C, 2016, 120, 21242-21247.	1.5	11
104	PDMS mixed matrix membranes filled with novel PSS-2 nanoparticles for ethanol/water separation by pervaporation. RSC Advances, 2016, 6, 78648-78651.	1.7	11
105	Ordered mesoporous silica to enhance the bioavailability of poorly water-soluble drugs: Proof of concept in man. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 108, 220-225.	2.0	81
106	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. ACS Omega, 2016, 1, 148-159.	1.6	76
107	Activity versus selectivity in photocatalysis: Morphological or electronic properties tipping the scale. Journal of Catalysis, 2016, 344, 221-228.	3.1	25
108	Manganese oxide films with controlled oxidation state for water splitting devices through a combination of atomic layer deposition and post-deposition annealing. RSC Advances, 2016, 6, 98337-98343.	1.7	44

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109	Intrusionâ€“extrusion spring performance of â€“COK-14 zeolite enhanced by structural changes. Physical Chemistry Chemical Physics, 2016, 18, 18795-18801.	1.3	11
110	Plasmonic â€˜rainbowâ€™ photocatalyst with broadband solar light response for environmental applications. Applied Catalysis B: Environmental, 2016, 188, 147-153.	10.8	49
111	In Situ Solid-State ¹³C NMR Observation of Pore Mouth Catalysis in Etherification of Î²-Citronellene with Ethanol on Zeolite Beta. Journal of the American Chemical Society, 2016, 138, 2802-2808.	6.6	31
112	Combined Experimental-Numerical Analysis of Transient Phenomena in a Photoelectrochemical Water Splitting Cell. Journal of Physical Chemistry C, 2016, 120, 3705-3714.	1.5	26
113	Synthesis of an IWW-type germanosilicate zeolite using 5-azonia-spiro[4,4]nonane as a structure directing agent. New Journal of Chemistry, 2016, 40, 4319-4324.	1.4	11
114	PDMS mixed matrix membranes containing hollow silicalite sphere for ethanol / water separation by pervaporation. Journal of Membrane Science, 2016, 502, 48-56.	4.1	65
115	Homogeneous Tubularâ€Flow Process for Monoolein Preparation. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 1525-1529.	0.8	4
116	Ternary Ag/MgOâ€SiO₂ Catalysts for the Conversion of Ethanol into Butadiene. ChemSusChem, 2015, 8, 913-913.	3.6	7
117	Porous Materials: Submicrometer-Sized ZIF-71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	7.8	1
118	Catalyst Design by NH₄OH Treatment of USY Zeolite. Advanced Functional Materials, 2015, 25, 7130-7144.	7.8	76
119	Hierarchical Zeolite: Catalyst Design by NH₄OH Treatment of USY Zeolite (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlo	7.8	3
120	Design of Compact Photoelectrochemical Cells for Water Splitting. Oil and Gas Science and Technology, 2015, 70, 877-889.	1.4	33
121	Solar Hydrogen Reaching Maturity. Oil and Gas Science and Technology, 2015, 70, 863-876.	1.4	29
122	Nanoscale intimacy in bifunctional catalysts for selective conversion of hydrocarbons. Nature, 2015, 528, 245-248.	13.7	450
123	Electrochemical impedance spectroscopy for in situ monitoring of early zeolite formation. , 2015, , .		1
124	Computational modelling of a photocatalytic UV-LED reactor with internal mass and photon transfer consideration. Chemical Engineering Journal, 2015, 264, 962-970.	6.6	59
125	Submicrometerâ€Sized ZIFâ€71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy. Advanced Functional Materials, 2015, 25, 516-525.	7.8	94
126	Cation Exchange Properties of Zeolites in Hyper Alkaline Aqueous Media. Environmental Science & Technology, 2015, 49, 1729-1737.	4.6	15

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127	Chabazite: Stable Cation-Exchanger in Hyper Alkaline Concrete Pore Water. Environmental Science & Technology, 2015, 49, 2358-2365.	4.6	13
128	Selective etherification of Î²-citronellene catalyzed by zeolite beta. Green Chemistry, 2015, 17, 2840-2845.	4.6	3
129	Silica capsules enclosing P123 triblock copolymer micelles for flurbiprofen storage and release. Journal of Materials Chemistry B, 2015, 3, 3054-3061.	2.9	21
130	Tailoring preparation, structure and photocatalytic activity of layer-by-layer films for degradation of different target molecules. Catalysis Today, 2015, 246, 28-34.	2.2	12
131	Self-Assembly of Pluronic F127â€”Silica Spherical Coreâ€“Shell Nanoparticles in Cubic Close-Packed Structures. Chemistry of Materials, 2015, 27, 5161-5169.	3.2	47
132	Novel anti-infective implant substrates: Controlled release of antibiofilm compounds from mesoporous silica-containing macroporous titanium. Colloids and Surfaces B: Biointerfaces, 2015, 126, 481-488.	2.5	25
133	Zeolite synthesis in hydrated silicate ionic liquids. Faraday Discussions, 2015, 179, 437-449.	1.6	34
134	Resolving Interparticle Heterogeneities in Composition and Hydrogenation Performance between Individual Supported Silver on Silica Catalysts. ACS Catalysis, 2015, 5, 6690-6695.	5.5	22
135	Mixed matrix membranes comprising of matrimid and mesoporous COK-12: Preparation and gas separation properties. Journal of Membrane Science, 2015, 495, 471-478.	4.1	35
136	Fabrication of Nanostructured Platinum with Multilevel Porosity for Low Impedance Biomedical Recording and Stimulation Electrodes. Procedia Engineering, 2015, 120, 355-359.	1.2	8
137	Ternary Ag/MgOâ€SiO₂ Catalysts for the Conversion of Ethanol into Butadiene. ChemSusChem, 2015, 8, 994-1008.	3.6	147
138	Toxicity of nanoparticles embedded in paints compared to pristine nanoparticles, in vitro study. Toxicology Letters, 2015, 232, 333-339.	0.4	27
139	Effect of a magnetic field on dispersion of a hop extract and the influence on gushing of beer. Journal of Food Engineering, 2015, 145, 10-18.	2.7	7
140	Photocatalytic carbon oxidation with nitric oxide. Applied Catalysis B: Environmental, 2015, 166-167, 374-380.	10.8	10
141	Stable TiO₂â€“USY zeolite composite coatings for efficient adsorptive and photocatalytic elimination of geosmin from water. Journal of Materials Chemistry A, 2015, 3, 2258-2264.	5.2	20
142	Polymer supported ZIF-8 membranes prepared via an interfacial synthesis method. Chemical Communications, 2015, 51, 918-920.	2.2	187
143	Gallium Oxide Nanorods: Novel, Templateâ€Free Synthesis and High Catalytic Activity in Epoxidation Reactions. Angewandte Chemie - International Edition, 2014, 53, 1585-1589.	7.2	63
144	In Situ IR Spectroscopic Investigation of Alumina ALD on Porous Silica Films: Thermal versus Plasma-Enhanced ALD. Journal of Physical Chemistry C, 2014, 118, 29854-29859.	1.5	28

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145	Enhanced Selfâ€Assembly of Metal Oxides and Metalâ€Organic Frameworks from Precursors with Magnetohydrodynamically Induced Longâ€Lived Collective Spin States. Advanced Materials, 2014, 26, 5173-5178.	11.1	8
146	Atomâ€Efficient Route for Converting Incineration Ashes into Heavy Metal Sorbents. ChemSusChem, 2014, 7, 276-283.	3.6	22
147	Single-step alcohol-free synthesis of coreâ€“shell nanoparticles of Î²-casein micelles and silica. RSC Advances, 2014, 4, 25650-25657.	1.7	3
148	Selfâ€Assembly: Enhanced Selfâ€Assembly of Metal Oxides and Metalâ€Organic Frameworks from Precursors with Magnetohydrodynamically Induced Longâ€Lived Collective Spin States (Adv. Mater. 30/2014). Advanced Materials, 2014, 26, 5223-5223.	11.1	0
149	Use of the transpiration method to study polonium evaporation from liquid lead-bismuth eutectic at high temperature. Radiochimica Acta, 2014, 102, 1083-1091.	0.5	9
150	Monolithic cells for solar fuels. Chemical Society Reviews, 2014, 43, 7963-7981.	18.7	181
151	Cost-effectiveness analysis to assess commercial TiO2 photocatalysts for acetaldehyde degradation in air. Chemical Papers, 2014, 68, .	1.0	17
152	Synthesis of a 3D network of Pt nanowires by atomic layer deposition on a carbonaceous template. Nanoscale, 2014, 6, 6939.	2.8	14
153	Plasmonic goldâ€“silver alloy on TiO2 photocatalysts with tunable visible light activity. Applied Catalysis B: Environmental, 2014, 156-157, 116-121.	10.8	122
154	Co-assessment of cell cycle and micronucleus frequencies demonstrates the influence of serum on thein vitrogenotoxic response to amorphous monodisperse silica nanoparticles of varying sizes. Nanotoxicology, 2014, 8, 876-884.	1.6	44
155	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. Chemical Society Reviews, 2014, 43, 990-1006.	18.7	115
156	Plasma enhanced atomic layer deposition of Ga₂O₃thin films. Journal of Materials Chemistry A, 2014, 2, 19232-19238.	5.2	77
157	Atomic layer deposition-based synthesis of photoactive TiO2 nanoparticle chains by using carbon nanotubes as sacrificial templates. RSC Advances, 2014, 4, 11648.	1.7	48
158	Conversion of sugars to ethylene glycol with nickel tungsten carbide in a fed-batch reactor: high productivity and reaction network elucidation. Green Chemistry, 2014, 16, 695-707.	4.6	147
159	Hierarchization of USY Zeolite by NH₄OH. A Postsynthetic Process Investigated by NMR and XRD. Journal of Physical Chemistry C, 2014, 118, 22573-22582.	1.5	81
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