Jonas Baltrusaitis

List of Publications by Year
in descending order

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251 papers	12,544 citations	26626 56 h-index	31843 101 g-index
259 all docs	259 docs citations	259 times ranked	18049 citing authors

#	Article	IF	Citations
1	Molecular structure and catalytic promotional effect of Mn on supported Na2WO4/SiO2 catalysts for oxidative coupling of methane (OCM) reaction. Catalysis Today, 2023, 416, 113837.	4.4	10
2	Elucidating the underlying surface chemistry of Sn/Al2O3 catalysts during the propane dehydrogenation in the presence of H2S co-feed. Applied Surface Science, 2022, 573, 151205.	6.1	7
3	Definition of a new (Doniachâ€Šunjicâ€Šhirley) peak shape for fitting asymmetric signals applied to reduced graphene oxide/graphene oxide XPS spectra. Surface and Interface Analysis, 2022, 54, 67-77.	1.8	25
4	Catalytic reduction of 4-nitrophenol using CuO@Na₂Ti(PO₄)₂â‹…H₂O. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2022, 57, 65-79.	1.7	3
5	Heterogeneous photo-Fenton-like degradation of emerging pharmaceutical contaminants in wastewater using Cu-doped MgO nanoparticles. Applied Catalysis A: General, 2022, 630, 118468.	4.3	13
6	The Effect of Pelletized Lime Kiln Dust Combined with Biomass Combustion Ash on Soil Properties and Plant Yield in a Three-Year Field Study. Land, 2022, 11, 521.	2.9	2
7	Scale-Up of Agrochemical Urea-Gypsum Cocrystal Synthesis Using Thermally Controlled Mechanochemistry. ACS Sustainable Chemistry and Engineering, 2022, 10, 6743-6754.	6.7	21
8	CO2 conversion to syngas via electrification of endothermal reactors: Process design and environmental impact analysis. Energy Conversion and Management, 2022, 265, 115763.	9.2	7
9	A study of in situ reduction of MoO3 to MoO2 by X-ray Photoelectron Spectroscopy. Applied Surface Science, 2022, 598, 153827.	6.1	22
10	Characterization and Toxicity Analysis of Lab-Created Respirable Coal Mine Dust from the Appalachians and Rocky Mountains Regions. Minerals (Basel, Switzerland), 2022, 12, 898.	2.0	5
11	Role and Responsibility of Sustainable Chemistry and Engineering in Providing Safe and Sufficient Nitrogen Fertilizer Supply at Turbulent Times. ACS Sustainable Chemistry and Engineering, 2022, 10, 8997-9001.	6.7	22
12	Extraction of selected rare earth elements from anthracite acid mine drainage using supercritical CO2 via coagulation and complexation. Journal of Rare Earths, 2021, 39, 83-89.	4.8	14
13	Immobilization and activation of cobalt-amine catalyst on NH4OH-treated activated carbon for ethylene dimerization. Catalysis Today, 2021, 365, 24-34.	4.4	4
14	Physicochemical Characterization of Pelletized Lime Kiln Dust as Potential Liming Material for Acidic Soils. Waste and Biomass Valorization, 2021, 12, 1267-1280.	3.4	8
15	Nutrient Dynamics and Plant Response in Soil to Organic Chicken Manure-Based Fertilizers. Waste and Biomass Valorization, 2021, 12, 371-382.	3.4	10
16	Optimization of energy requirements for CO2 post-combustion capture process through advanced thermal integration. Fuel, 2021, 283, 118940.	6.4	42
17	Dynamic simulation and control of a combustion turbine process for biogas derived methane. Computers and Chemical Engineering, 2021, 144, 107121.	3.8	6
18	Unraveling spectral shapes of adventitious carbon on gold using a time-resolved high-resolution X-ray photoelectron spectroscopy and principal component analysis. Applied Surface Science, 2021, 538, 148031.	6.1	10

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19	Oxidative Dehydrogenation of Propane to Propylene with Soft Oxidants via Heterogeneous Catalysis. ACS Catalysis, 2021, 11, 2182-2234.	11.2	97
20	A Spectroscopic Study of Supportedâ€Phosphateâ€Catalysts (SPCs): Evidence of Surfaceâ€mediated Hydrogenâ€Transfer. ChemCatChem, 2021, 13, 2064-2073.	3.7	5
21	Elucidating the origin of selective dehydrogenation of propane on Î³-alumina under H2S treatment and co-feed. Journal of Catalysis, 2021, 394, 142-156.	6.2	21
22	A Mixture of Green Waste Compost and Biomass Combustion Ash for Recycled Nutrient Delivery to Soil. Agronomy, 2021, 11, 641.	3.0	3
23	Elucidating the Effects of Mn Promotion on SiO₂-Supported Na-Promoted Tungsten Oxide Catalysts for Oxidative Coupling of Methane (OCM). ACS Catalysis, 2021, 11, 10131-10137.	11.2	23
24	New Mechanistic and Reaction Pathway Insights for Oxidative Coupling of Methane (OCM) over Supported Na₂WO₄/SiO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, 21502-21511.	13.8	45
25	Mesoporous Fe-doped MgO nanoparticles as a heterogeneous photo-Fenton-like catalyst for degradation of salicylic acid in wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 105589.	6.7	22
26	New Mechanistic and Reaction Pathway Insights for Oxidative Coupling of Methane (OCM) over Supported Na 2 WO 4 /SiO 2 Catalysts. Angewandte Chemie, 2021, 133, 21672-21681.	2.0	3
27	Resolving the Types and Origin of Active Oxygen Species Present in Supported Mn-Na₂WO₄/SiO₂ Catalysts for Oxidative Coupling of Methane. ACS Catalysis, 2021, 11, 10288-10293.	11.2	29
28	Sulfur Tolerant Subnanometer Fe/Alumina Catalysts for Propane Dehydrogenation. ACS Applied Nano Materials, 2021, 4, 10055-10067.	5.0	13
29	The Often-Overlooked Power of Summary Statistics in Exploratory Data Analysis: Comparison of Pattern Recognition Entropy (PRE) to Other Summary Statistics and Introduction of Divided Spectrum-PRE (DS-PRE). Journal of Chemical Information and Modeling, 2021, 61, 4173-4189.	5.4	7
30	Atmospheric Pressure DBD Plasma Ammonia Synthesis and Separation Process Design and Environmental Impact Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 13233-13244.	6.7	11
31	Systematic and collaborative approach to problem solving using X-ray photoelectron spectroscopy. Applied Surface Science Advances, 2021, 5, 100112.	6.8	451
32	Surface chemistry of hydroxyapatite for sustainable n-butanol production from bio-ethanol. Chem Catalysis, 2021, 1, 782-801.	6.1	9
33	Comprehensive process and environmental impact analysis of integrated DBD plasma steam methane reforming. Fuel, 2021, 304, 121328.	6.4	20
34	Towards a reliable assessment of charging effects during surface analysis: Accurate spectral shapes of ZrO2 and Pd/ZrO2 via X-ray Photoelectron Spectroscopy. Applied Surface Science, 2021, 566, 150728.	6.1	9
35	Destruction of emerging organophosphate contaminants in wastewater using the heterogeneous iron-based photo-Fenton-like process. Journal of Hazardous Materials Letters, 2021, 2, 100012.	3.6	11
36	Low concentrations of Cu²⁺ in synthetic nutrient containing wastewater inhibit MgCO₃-to-struvite transformation. Environmental Science: Water Research and Technology, 2021, 7, 521-534.	2.4	4

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37	Methane activation by ZSM-5-supported transition metal centers. Chemical Society Reviews, 2021, 50, 1251-1268.	38.1	77
38	First-principles-informed energy span and microkinetic analysis of ethanol catalytic conversion to 1,3-butadiene on MgO. Catalysis Science and Technology, 2021, 11, 6682-6694.	4.1	4
39	A combined computational and experimental study of methane activation during oxidative coupling of methane (OCM) by surface metal oxide catalysts. Chemical Science, 2021, 12, 14143-14158.	7.4	5
40	Atomically Dispersed Tin-Modified Î³-alumina for Selective Propane Dehydrogenation under H₂S Co-feed. ACS Catalysis, 2021, 11, 13472-13482.	11.2	8
41	Phosphate removal from simulated wastewater using industrial calcium-containing solid waste. Journal of Environmental Chemical Engineering, 2021, 9, 106575.	6.7	8
42	Transformation of Liquid Digestate from the Solid-Separated Biogas Digestion Reactor Effluent into a Solid NH₄HCO₃ Fertilizer: Sustainable Process Engineering and Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 580-588.	6.7	18
43	Solar Steam Generation Integration into the Ammonium Bicarbonate Recovery from Liquid Biomass Digestate: Process Modeling and Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 15278-15286.	6.7	6
44	Curve fitting complex X-ray photoelectron spectra of graphite-supported copper nanoparticles using informed line shapes. Applied Surface Science, 2020, 505, 143841.	6.1	21
45	The quality and energy potential of introduced energy crops in northern part of temperate climate zone. Renewable Energy, 2020, 151, 887-895.	8.9	13
46	A review of phosphate adsorption on Mg-containing materials: kinetics, equilibrium, and mechanistic insights. Environmental Science: Water Research and Technology, 2020, 6, 3178-3194.	2.4	24
47	Transition metal-doped MgO nanoparticles for nutrient recycling: an alternate Mg source for struvite synthesis from wastewater. Environmental Science: Nano, 2020, 7, 3482-3496.	4.3	14
48	Granulated biofuel ash as a sustainable source of plant nutrients. Waste Management and Research, 2020, 39, 0734242X2094895.	3.9	11
49	Simultaneous Process Design of a Cooled Tubular Fischerâ€“Tropsch Reactor. Energy Technology, 2020, 8, 2000683.	3.8	1
50	Superstructural diversity in salt-cocrystals: higher-order hydrogen-bonded assemblies formed using U-shaped dications and with assistance of Ï€^{â¯}â€“Ï€ stacking. Chemical Communications, 2020, 56, 6708-6710.	4.1	8
51	Relative Humidity Facilitated Urea Particle Reaction with Salicylic Acid: A Combined In Situ Spectroscopy and DFT Study. ACS Earth and Space Chemistry, 2020, 4, 1018-1028.	2.7	12
52	Existence and Properties of Isolated Catalytic Sites on the Surface of Î²-Cristobalite-Supported, Doped Tungsten Oxide Catalysts (WO_x/Î²-SiO₂,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (Na-WO<sub> Oxidative Coupling of Methane (OCM): A Combined Periodic DFT and Experimental Study. ACS Catalysis, 2020, 10, 4580-4592.	11.2	33
53	Deposition and properties of mixed molybdenum sulfide (MoS2) and copper sulfide (CuxS) films on glass surface using elemental sulfur as a precursor. Thin Solid Films, 2020, 709, 138209.	1.8	3
54	In situ monitoring of mechanochemical synthesis of calcium urea phosphate fertilizer cocrystal reveals highly effective water-based autocatalysis. Chemical Science, 2020, 11, 2350-2355.	7.4	40

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55	Anthracite coal-based activated carbon for elemental Hg adsorption in simulated flue gas: Preparation and evaluation. Fuel, 2020, 275, 117921.	6.4	32
56	Synthesis and molecular structure of model silica-supported tungsten oxide catalysts for oxidative coupling of methane (OCM). Catalysis Science and Technology, 2020, 10, 3334-3345.	4.1	35
57	Mechanochemically synthesized gypsum and gypsum drywall waste cocrystals with urea for enhanced environmental sustainability fertilizers. Journal of Environmental Chemical Engineering, 2020, 8, 103965.	6.7	13
58	Multifunctional Urea Cocrystal with Combined Ureolysis and Nitrification Inhibiting Capabilities for Enhanced Nitrogen Management. ACS Sustainable Chemistry and Engineering, 2019, 7, 13369-13378.	6.7	32
59	First-principles microkinetic study of methane and hydrogen sulfide catalytic conversion to methanethiol/dimethyl sulfide on Mo6S8 clusters: activity/selectivity of different promoters. Catalysis Science and Technology, 2019, 9, 4573-4580.	4.1	5
60	Methylated Poly(ethylene)imine Modified Capacitive Micromachined Ultrasonic Transducer for Measurements of CO2 and SO2 in Their Mixtures. Sensors, 2019, 19, 3236.	3.8	18
61	Inhibitor, Co-Catalyst, or Co-Reactant? Probing the Different Roles of H₂S during CO₂ Hydrogenation on the MoS₂ Catalyst. ACS Catalysis, 2019, 9, 10044-10059.	11.2	24
62	Experimental Insights into the Genesis and Growth of Struvite Particles on Low-Solubility Dolomite Mineral Surfaces. Journal of Physical Chemistry C, 2019, 123, 25135-25145.	3.1	20
63	Oxidative Coupling of Methane (OCM) by SiO₂-Supported Tungsten Oxide Catalysts Promoted with Mn and Na. ACS Catalysis, 2019, 9, 5912-5928.	11.2	136
64	CO₂ and SO₂ Interactions with Methylated Poly(ethylenimine)-Functionalized Capacitive Micromachined Ultrasonic Transducers (CMUTs): Gas Sensing and Degradation Mechanism. ACS Applied Electronic Materials, 2019, 1, 1150-1161.	4.3	14
65	Spatially Resolved Product Speciation during Struvite Synthesis from Magnesite (MgCO₃) Particles in Ammonium (NH₄⁺) and Phosphate (PO₄^{3â€“}) Aqueous Solutions. Journal of Physical Chemistry C, 2019, 123, 8908-8922.	3.1	17
66	Mechanochemical Synthesis of Ca- and Mg-Double Salt Crystalline Materials Using Insoluble Alkaline Earth Metal Bearing Minerals. ACS Sustainable Chemistry and Engineering, 2019, 7, 6802-6812.	6.7	13
67	The shape-dependent surface oxidation of 2D ultrathin Mo2C crystals. Nanoscale Advances, 2019, 1, 4692-4696.	4.6	7
68	Novel Dual-Action Plant Fertilizer and Urease Inhibitor: UreaÂ·Catechol Cocrystal. Characterization and Environmental Reactivity. ACS Sustainable Chemistry and Engineering, 2019, 7, 2852-2859.	6.7	42
69	Transient Struvite Formation during Stoichiometric (1:1) NH₄⁺ and PO₄^{3â€“} Adsorption/Reaction on Magnesium Oxide (MgO) Particles. ACS Sustainable Chemistry and Engineering, 2019, 7, 1545-1556.	6.7	30
70	Critical review on the active site structure of sulfated zirconia catalysts and prospects in fuel production. Applied Catalysis A: General, 2019, 572, 210-225.	4.3	69
71	Operando Structure Determination of Cu and Zn on Supported MgO/SiO₂ Catalysts during Ethanol Conversion to 1,3-Butadiene. ACS Catalysis, 2019, 9, 269-285.	11.2	38
72	Reactive Mechanosynthesis of Urea Ionic Cocrystal Fertilizer Materials from Abundant Low Solubility Magnesium- and Calcium-Containing Minerals. ACS Sustainable Chemistry and Engineering, 2018, 6, 4680-4687.	6.7	28

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73	Electrooxidation of Glycerol on Gold in Acidic Medium: A Combined Experimental and DFT Study. Journal of Physical Chemistry C, 2018, 122, 10489-10494.	3.1	32
74	Design of a separation section in an ethanol-to-butanol process. Biomass and Bioenergy, 2018, 109, 231-238.	5.7	23
75	Molecular structure and sour gas surface chemistry of supported K2O/WO3/Al2O3 catalysts. Applied Catalysis B: Environmental, 2018, 232, 146-154.	20.2	19
76	Structure and Vibrational Properties of Potassium-Promoted Tungsten Oxide Catalyst Monomeric Sites Supported on Alumina (K2O/WO3/Al2O3) Characterized Using Periodic Density Functional Theory. Journal of Physical Chemistry C, 2018, 122, 24190-24201.	3.1	11
77	Carnallite-Derived Solid Waste as Potassium (K) and Magnesium (Mg) Source in Granulated Compound NPK Fertilizers. ACS Sustainable Chemistry and Engineering, 2018, 6, 9427-9433.	6.7	12
78	In Situ Spectroscopic Insights on the Molecular Structure of the MgO/SiO₂ Catalytic Active Sites during Ethanol Conversion to 1,3-Butadiene. Journal of Physical Chemistry C, 2018, 122, 20894-20906.	3.1	30
79	Smart urea ionic co-crystals with enhanced urease inhibition activity for improved nitrogen cycle management. Chemical Communications, 2018, 54, 7637-7640.	4.1	41
80	Spectroscopic and Microscopic Identification of the Reaction Products and Intermediates during the Struvite (MgNH₄PO₄·6H₂O) Formation from Magnesium Oxide (MgO) and Magnesium Carbonate (MgCO₃) Microparticles. ACS Sustainable Chemistry and Engineering, 2017, 5, 1567-1577.	6.7	44
81	Minireview: direct catalytic conversion of sour natural gas (CH₄ + H₂S +) Tj ETQq1 1 0.784314 rgBT /Overlo 2017, 7, 2919-2929.	4.1	34
82	Design and control of a cryogenic multi-stage compression refrigeration process. Chemical Engineering Research and Design, 2017, 121, 360-367.	5.6	27
83	Adjustable N:P₂O₅ Ratio Urea Phosphate Fertilizers for Sustainable Phosphorus and Nitrogen Use: Liquid Phase Equilibria via Solubility Measurements and Raman Spectroscopy. ACS Sustainable Chemistry and Engineering, 2017, 5, 1747-1754.	6.7	11
84	Catalytic conversion of ethanol to 1,3-butadiene on MgO: A comprehensive mechanism elucidation using DFT calculations. Journal of Catalysis, 2017, 346, 78-91.	6.2	70
85	Surface chemistry of MgO/SiO₂ catalyst during the ethanol catalytic conversion to 1,3-butadiene: in-situ DRIFTS and DFT study. Catalysis Science and Technology, 2017, 7, 4648-4668.	4.1	58
86	Mechanosynthesis of Magnesium and Calcium Saltâ€“Urea Ionic Cocrystal Fertilizer Materials for Improved Nitrogen Management. ACS Sustainable Chemistry and Engineering, 2017, 5, 8546-8550.	6.7	55
87	CH4 and H2S reforming to CH3SH and H2 catalyzed by metal-promoted Mo6S8 clusters: a first-principles micro-kinetic study. Catalysis Science and Technology, 2017, 7, 3546-3554.	4.1	10
88	Sustainable Ammonia Production. ACS Sustainable Chemistry and Engineering, 2017, 5, 9527-9527.	6.7	74
89	Efficiency Evaluation of Dairy Wastewater Derived Zinc Micronutrient Containing Sustainable Fertilizers. ACS Sustainable Chemistry and Engineering, 2017, 5, 6692-6699.	6.7	9
90	Chemical and structural changes in polyamide based organicâ€“inorganic hybrid materials upon incorporation of SeS2O62â^' precursor. Applied Surface Science, 2017, 392, 634-641.	6.1	10

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91	Bactericidal effect of graphene oxide/Cu/Ag nanoderivatives against Escherichia coli , Pseudomonas aeruginosa , Klebsiella pneumoniae , Staphylococcus aureus and Methicillin-resistant Staphylococcus aureus. International Journal of Pharmaceutics, 2016, 511, 90-97.	5.2	42
92	Chemical routes to hydrocarbons from pyrolysis of lignocellulose using Cs promoted amorphous silica alumina catalyst. Catalysis Today, 2016, 269, 156-165.	4.4	26
93	From Insoluble Minerals to Liquid Fertilizers: Magnesite as a Source of Magnesium (Mg) Nutrient. ACS Sustainable Chemistry and Engineering, 2016, 4, 5404-5408.	6.7	9
94	Surface chemistry of carbon dioxide revisited. Surface Science Reports, 2016, 71, 595-671.	7.2	132
95	Molecular and Morphological Structure of Poultry Manure Derived Organo-Mineral Fertilizers (OMFs). ACS Sustainable Chemistry and Engineering, 2016, 4, 4788-4796.	6.7	11
96	Hematite decorated multi-walled carbon nanotubes (Î±-Fe2O3/MWCNTs) as sorbents for Cu(ii) and Cr(vi): comparison of hybrid sorbent performance to its nanomaterial building blocks. RSC Advances, 2016, 6, 99997-100007.	3.6	21
97	Greenhouse Gas Molecule CO₂ Detection Using a Capacitive Micromachined Ultrasound Transducer. Analytical Chemistry, 2016, 88, 6662-6665.	6.5	21
98	Efficient photocatalytic hydrogen evolution system by assembling earth abundant NixOy nanoclusters in cubic MCM-48 mesoporous materials. RSC Advances, 2016, 6, 59169-59180.	3.6	8
99	CH 4 conversion to value added products: Potential, limitations and extensions of a single step heterogeneous catalysis. Applied Catalysis B: Environmental, 2016, 198, 525-547.	20.2	185
100	Characterization of urea derived polymeric carbon nitride and resultant thermally vacuum deposited amorphous thin films: Structural, chemical and photophysical properties. Carbon, 2016, 107, 415-425.	10.3	22
101	Comparative life cycle assessment of plasma-based and traditional exhaust gas treatment technologies. Journal of Cleaner Production, 2016, 112, 1804-1812.	9.3	47
102	Engineered Pelletized Organo-Mineral Fertilizers (OMF) from Poultry Manure, Diammonium Phosphate and Potassium Chloride. ACS Sustainable Chemistry and Engineering, 2016, 4, 2279-2285.	6.7	30
103	Dairy Wastewater for Production of Chelated Biodegradable Zn Micronutrient Fertilizers. ACS Sustainable Chemistry and Engineering, 2016, 4, 1722-1727.	6.7	12
104	Solar hydrogen generation over CdS incorporated in Ti-MCM-48 mesoporous materials under visible light illumination. International Journal of Hydrogen Energy, 2016, 41, 4106-4119.	7.1	19
105	Reversible Photohydration of Trenbolone Acetate Metabolites: Mechanistic Understanding of Product-to-Parent Reversion through Complementary Experimental and Theoretical Approaches. Environmental Science & Technology, 2016, 50, 6753-6761.	10.0	14
106	Catalytic methyl mercaptan coupling to ethylene in chabazite: DFT study of the first C C bond formation. Applied Catalysis B: Environmental, 2016, 187, 195-203.	20.2	13
107	Geometry and Electronic Properties of Glycerol Adsorbed on Bare and Transition-Metal Surface-Alloyed Au(111): A Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 1749-1757.	3.1	18
108	Ureaâ€“Ammonium Nitrate Aqueous Solutions Containing Cu Micronutrient Obtained from Cable Manufacturing Solid Waste. ACS Sustainable Chemistry and Engineering, 2015, 3, 1544-1550.	6.7	8

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109	Structural, chemical and optical properties of the polyethyleneâ€“copper sulfide composite thin films synthesized using polythionic acid as sulfur source. Applied Surface Science, 2015, 347, 520-527.	6.1	6
110	Modification of polyamide-CdS-CdSe composite material films with Ag using a cationâ€“cation exchange reaction. Applied Surface Science, 2015, 351, 203-208.	6.1	4
111	Cycloexpansamines A and B: spiroindolinone alkaloids from a marine isolate of Penicillium sp. (SF-5292). Journal of Antibiotics, 2015, 68, 715-718.	2.0	18
112	CMUT for high sensitivity greenhouse gas sensing. , 2015, , .		5
113	Combination of Argentophilic and Perfluorophenyl-Perfluorophenyl Interactions Supports a Head-to-Head [2 + 2] Photodimerization in the Solid State. Crystal Growth and Design, 2015, 15, 538-541.	3.0	48
114	Structure, morphology and electrochemical properties of zincâ€“cobalt oxide films on AISI 304 type steel. Journal of Applied Electrochemistry, 2015, 45, 405-417.	2.9	10
115	Solar simulated hydrogen evolution using cobalt oxide nanoclusters deposited on titanium dioxide mesoporous materials prepared by evaporation induced self-assembly process. International Journal of Hydrogen Energy, 2015, 40, 10795-10806.	7.1	9
116	Phase Composition of Aqueous Ureaâ€“Ammonium Nitrate (UAN)â€“Zinc Nitrate Solutions for Sustainable Reuse of Zinc Containing Industrial Pigment Waste. ACS Sustainable Chemistry and Engineering, 2015, 3, 950-958.	6.7	13
117	Electro-oxidation of water on hematite: Effects of surface termination and oxygen vacancies investigated by first-principles. Surface Science, 2015, 640, 45-49.	1.9	43
118	Characterization of linear alkyl phosphonate self-assembled on perovskite substrate. Applied Surface Science, 2015, 344, 159-162.	6.1	4
119	Electrochemically Deposited Sb and In Doped Tin Sulfide (SnS) Photoelectrodes. Journal of Physical Chemistry C, 2015, 119, 6471-6480.	3.1	27
120	Methane Conversion to Syngas for Gas-to-Liquids (GTL): Is Sustainable CO₂ Reuse via Dry Methane Reforming (DMR) Cost Competitive with SMR and ATR Processes?. ACS Sustainable Chemistry and Engineering, 2015, 3, 2100-2111.	6.7	80
121	Pdâ€“Ti-MCM-48 cubic mesoporous materials for solar simulated hydrogen evolution. International Journal of Hydrogen Energy, 2015, 40, 905-918.	7.1	21
122	Generalized molybdenum oxide surface chemical state XPS determination via informed amorphous sample model. Applied Surface Science, 2015, 326, 151-161.	6.1	375
123	Deposition, structure and properties of polyamideâ€“CdSeâ€“CdS composite material using sorptionâ€“diffusion method. Applied Surface Science, 2015, 325, 175-184.	6.1	4
124	Photocatalytic decomposition of cortisone acetate in aqueous solution. Journal of Hazardous Materials, 2015, 282, 208-215.	12.4	29
125	Decomposition of 2-naphthol in water using a non-thermal plasma reactor. Chemical Engineering Journal, 2015, 260, 188-198.	12.7	42
126	Design and Characterization of Electrospun Polyamide Nanofiber Media for Air Filtration Applications. Journal of Nanomaterials, 2014, 2014, 1-13.	2.7	101

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127	Characterization of Plasma Polymerized Hexamethyldisiloxane Films Prepared by Arc Discharge. Plasma Chemistry and Plasma Processing, 2014, 34, 271-285.	2.4	14
128	Photocatalytic degradation of dye by Ag/ZnO prepared by reduction of Tollenâ€™s reagent and the ecotoxicity of degraded products. Korean Journal of Chemical Engineering, 2014, 31, 587-592.	2.7	28
129	Iron oxide nanoparticles induce Pseudomonas aeruginosa growth, induce biofilm formation, and inhibit antimicrobial peptide function. Environmental Science: Nano, 2014, 1, 123.	4.3	96
130	Nanocrystals of a Metalâ€“Organic Complex Exhibit Remarkably High Conductivity that Increases in a Single-Crystal-to-Single-Crystal Transformation. Journal of the American Chemical Society, 2014, 136, 6778-6781.	13.7	92
131	Ag2S deposited on oxidized polypropylene as composite material for solar light absorption. Applied Surface Science, 2014, 301, 134-141.	6.1	27
132	Absolute Organic Crystal Thermodynamics: Growth of the Asymmetric Unit into a Crystal via Alchemy. Journal of Chemical Theory and Computation, 2014, 10, 2781-2791.	5.3	24
133	Competitive role of structural properties of titaniaâ€“silica mixed oxides and a mechanistic study of the photocatalytic degradation of phenol. Applied Catalysis B: Environmental, 2014, 148-149, 394-405.	20.2	41
134	Photoelectrochemical Hydrogen Production on Î±â€Fe₂O₃ (0001): Insights from Theory and Experiments. ChemSusChem, 2014, 7, 162-171.	6.8	27
135	Insight into band positions and inter-particle electron transfer dynamics between CdS nanoclusters and spatially isolated TiO₂dispersed in cubic MCM-48 mesoporous materials: a highly efficient system for photocatalytic hydrogen evolution under visible light illumination. Physical Chemistry Chemical Physics, 2014, 16, 2048-2061.	2.8	17
136	Heterogeneous Reactivity of Nitric Acid with Nascent Sea Spray Aerosol: Large Differences Observed between and within Individual Particles. Journal of Physical Chemistry Letters, 2014, 5, 2493-2500.	4.6	66
137	Thermally-driven structural changes of graphene oxide multilayer films deposited on glass substrate. Superlattices and Microstructures, 2014, 75, 461-467.	3.1	13
138	Renewable energy based catalytic CH4 conversion to fuels. Catalysis Science and Technology, 2014, 4, 2397.	4.1	66
139	Liquid and Solid Compound Granulated Diurea Sulfate-Based Fertilizers for Sustainable Sulfur Source. ACS Sustainable Chemistry and Engineering, 2014, 2, 2477-2487.	6.7	17
140	N-Functionalized Carbon Nanotubes As a Source and Precursor of N-Nitrosodimethylamine: Implications for Environmental Fate, Transport, and Toxicity. Environmental Science & Technology, 2014, 48, 9279-9287.	10.0	23
141	High Throughput Analysis of Photocatalytic Water Purification. Analytical Chemistry, 2014, 86, 7612-7617.	6.5	10
142	Polyamideâ€“thallium selenide composite materials via temperature and pH controlled adsorptionâ€“diffusion method. Applied Surface Science, 2014, 317, 818-827.	6.1	8
143	Surface Photochemistry of Adsorbed Nitrate: The Role of Adsorbed Water in the Formation of Reduced Nitrogen Species on Î±-Fe₂O₃ Particle Surfaces. Journal of Physical Chemistry A, 2014, 118, 158-166.	2.5	75
144	Electrochemical CO₂ reduction on Cu₂O-derived copper nanoparticles: controlling the catalytic selectivity of hydrocarbons. Physical Chemistry Chemical Physics, 2014, 16, 12194-12201.	2.8	458

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145	Effects of bismuth addition and photo-deposition of platinum on (surface) composition, morphology and visible light photocatalytic activity of solâ€“gel derived TiO2. Applied Catalysis B: Environmental, 2014, 154-155, 153-160.	20.2	18
146	Noncentrosymmetric Packings Influenced by Electronic Properties of Products of Click Reactions. Crystal Growth and Design, 2014, 14, 893-896.	3.0	3
147	Water adsorption constrained Frenkelâ€“Halseyâ€“Hill adsorption activation theory: Montmorillonite and illite. Atmospheric Environment, 2014, 87, 26-33.	4.1	31
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