

Jason Scott

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175
papers

6,506
citations

49
h-index

70
g-index

187
ext. papers

7,997
ext. citations

9.9
avg, IF

6.32
L-index

#	Paper	IF	Citations
175	Facet-dependent Spatial Charge Separation with Rational Co-catalyst Deposition on BiVO ₄ . <i>Materials Today Energy</i> , 2022 , 100986	7	1
174	Nanofluid preparation, stability and performance for CO absorption and desorption enhancement: A review.. <i>Journal of Environmental Management</i> , 2022 , 313, 114955	7.9	0
173	Two Steps Back, One Leap Forward: Synergistic Energy Conversion in Plasmonic and Plasma Catalysis. <i>ACS Energy Letters</i> , 2022 , 7, 300-309	20.1	0
172	Engineering Multidefects on Ce Si O Nanocomposites for the Catalytic Ozonation Reaction. <i>Small</i> , 2021 , e2103530	11	0
171	Synergistic Cyanamide Functionalization and Charge-Induced Activation of Nickel/Carbon Nitride for Enhanced Selective Photoreforming of Ethanol. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49916-49926	9.5	0
170	A winged solar biomass reactor for producing 5-hydroxymethylfurfural (5-HMF). <i>Solar Energy</i> , 2021 , 218, 455-468	6.8	3
169	Doping-Mediated MetalSupport Interaction Promotion toward Light-Assisted Methanol Production over Cu/ZnO/Al ₂ O ₃ . <i>ACS Catalysis</i> , 2021 , 11, 5818-5828	13.1	2
168	Ligand-Promoted Cooperative Electrochemical Oxidation of Bio-Alcohol on Distorted Cobalt Hydroxides for Bio-Hydrogen Extraction. <i>ChemSusChem</i> , 2021 , 14, 2612-2620	8.3	3
167	Oxygen Nucleation of MoS Nanosheet Thin Film Supercapacitor Electrodes for Enhanced Electrochemical Energy Storage. <i>ChemSusChem</i> , 2021 , 14, 2882-2891	8.3	0
166	Decoupling the Impacts of Engineering Defects and Band Gap Alignment Mechanism on the Catalytic Performance of Holey 2D CeO ₂ -Based Heterojunctions. <i>Advanced Functional Materials</i> , 2021 , 31, 2103171	15.6	11
165	Disordered TiO _x BiO _x Nanocatalysts Using Bioinspired Synthetic Routes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7691-7701	6.1	1
164	Hierarchically Porous Biocatalytic MOF Microreactor as a Versatile Platform towards Enhanced Multienzyme and Cofactor-Dependent Biocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5421-5428	16.4	28
163	Mixed-Metal MOF-74 Templated Catalysts for Efficient Carbon Dioxide Capture and Methanation. <i>Advanced Functional Materials</i> , 2021 , 31, 2007624	15.6	27
162	Hierarchically Porous Biocatalytic MOF Microreactor as a Versatile Platform towards Enhanced Multienzyme and Cofactor-Dependent Biocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 5481-5488	3.6	13
161	Photogenerated charge dynamics of CdS nanorods with spatially distributed MoS ₂ for photocatalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2021 , 420, 127709	14.7	22
160	Emerging material engineering strategies for amplifying photothermal heterogeneous CO ₂ catalysis. <i>Journal of Energy Chemistry</i> , 2021 , 59, 108-125	12	15
159	Advancing photoreforming of organics: highlights on photocatalyst and system designs for selective oxidation reactions. <i>Energy and Environmental Science</i> , 2021 , 14, 1140-1175	35.4	33

158	Highly catalytically active CeO-based heterojunction nanostructures with mixed micro/meso-porous architectures. <i>Nanoscale</i> , 2021 , 13, 6764-6771	7.7	5
157	Photoenhanced CO ₂ methanation over La ₂ O ₃ promoted Co/TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120248	21.8	3
156	Preparation of Bi-based photocatalysts in the form of powdered particles and thin films: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15302-15318	13	38
155	Synergistic ultraviolet and visible light photo-activation enables intensified low-temperature methanol synthesis over copper/zinc oxide/alumina. <i>Nature Communications</i> , 2020 , 11, 1615	17.4	37
154	Light-Enhanced CO ₂ Reduction to CH ₄ using Nonprecious Transition-Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5056-5066	8.3	18
153	Inducing Ni phyllosilicate formation over a carbon fiber support as a catalyst for the CO ₂ reforming of methane. <i>Applied Catalysis A: General</i> , 2020 , 592, 117418	5.1	10
152	Assembly of cerium-based coordination polymer into variant polycrystalline 2D CeO ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4753-4763	13	11
151	Light-Induced Formation of MoOS Clusters on CdS Nanorods as Cocatalyst for Enhanced Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8324-8332	9.5	51
150	Silver-Based Plasmonic Catalysts for Carbon Dioxide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1879-1887	8.3	13
149	Inducing synergy in bimetallic RhNi catalysts for CO ₂ methanation by galvanic replacement. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119029	21.8	22
148	Tuning the Selectivity of LaNiO ₃ Perovskites for CO ₂ Hydrogenation through Potassium Substitution. <i>Catalysts</i> , 2020 , 10, 409	4	10
147	Cu ₂ O photocatalyst: Activity enhancement driven by concave surface. <i>Materials Today Energy</i> , 2020 , 16, 100422	7	6
146	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020 , 49, 8584-8686	58.5	184
145	From passivation to activation - tunable nickel/nickel oxide for hydrogen evolution electrocatalysis. <i>Chemical Communications</i> , 2020 , 56, 1709-1712	5.8	21
144	Low-Temperature CO ₂ Methanation: Synergistic Effects in Plasma-Ni Hybrid Catalytic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1888-1898	8.3	26
143	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. <i>Advanced Materials</i> , 2020 , 32, e1904717	24	124
142	Unlocking the potential of the formate pathway in the photo-assisted Sabatier reaction. <i>Nature Catalysis</i> , 2020 , 3, 1034-1043	36.5	28
141	Valence Alignment of Mixed Ni-Fe Hydroxide Electrocatalysts through Preferential Templating on Graphene Edges for Enhanced Oxygen Evolution. <i>ACS Nano</i> , 2020 , 14, 11327-11340	16.7	23

140	Manipulation of planar oxygen defect arrangements in multifunctional magnon titanium oxide hybrid systems: from energy conversion to water treatment. <i>Energy and Environmental Science</i> , 2020 , 13, 5080-5096	35.4	6
139	Shock Exfoliation of Graphene Fluoride in Microwave. <i>Small</i> , 2020 , 16, e1903397	11	14
138	Plasma Treating Mixed Metal Oxides to Improve Oxidative Performance via Defect Generation. <i>Materials</i> , 2019 , 12,	3.5	9
137	Bio-oil upgrading with catalytic pyrolysis of biomass using Copper/zeolite-Nickel/zeolite and Copper-Nickel/zeolite catalysts. <i>Bioresource Technology</i> , 2019 , 279, 404-409	11	51
136	The Importance of the Interfacial Contact: Is Reduced Graphene Oxide Always an Enhancer in Photo(Electro)Catalytic Water Oxidation?. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23125-23134	9.5	28
135	Effect of Metal-Support Interactions in Mixed Co/Al Catalysts for Dry Reforming of Methane. <i>ChemCatChem</i> , 2019 , 11, 3432-3440	5.2	13
134	Enhanced bio-oil deoxygenation activity by Cu/zeolite and Ni/zeolite catalysts in combined in-situ and ex-situ biomass pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 148-160	6	29
133	Spherical Murray-Type Assembly of Co-N-C Nanoparticles as a High-Performance Trifunctional Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9925-9933	9.5	31
132	Unifying double flame spray pyrolysis with lanthanum doping to restrict cobaltaluminate formation in Co/Al ₂ O ₃ catalysts for the dry reforming of methane. <i>Catalysis Science and Technology</i> , 2019 , 9, 4970-4980	5.5	13
131	Ternary MnO/CoMn alloy@N-doped graphitic composites derived from a bi-metallic pigment as bi-functional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20649-20657	13	13
130	The Dependence of Bi ₂ MoO ₆ Photocatalytic Water Oxidation Capability on Crystal Facet Engineering. <i>ChemPhotoChem</i> , 2019 , 3, 1246-1253	3.3	11
129	Cooperative defect-enriched SiO ₂ for oxygen activation and organic dehydrogenation. <i>Journal of Catalysis</i> , 2019 , 376, 168-179	7.3	10
128	Asymmetrical Double Flame Spray Pyrolysis-Designed SiO/CeZrO for the Dry Reforming of Methane. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25766-25777	9.5	17
127	Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment. <i>Advanced Materials</i> , 2019 , 31, e1905288	24	20
126	Light-Induced Synergistic Multidefect Sites on TiO ₂ /SiO ₂ Composites for Catalytic Dehydrogenation. <i>ACS Catalysis</i> , 2019 , 9, 2674-2684	13.1	27
125	2D Materials: Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment (Adv. Mater. 52/2019). <i>Advanced Materials</i> , 2019 , 31, 1970370	24	2
124	Promoting surface oxygen vacancies on ceria via light pretreatment to enhance catalytic ozonation. <i>Catalysis Science and Technology</i> , 2019 , 9, 5979-5990	5.5	22
123	Selective oxidation of methacrolein to methacrylic acid over HPMoVO/CN-SBA-15.. <i>RSC Advances</i> , 2019 , 9, 34065-34075	3.7	7

122	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3010-3017	8.3	57
121	Recent advances in suppressing the photocorrosion of cuprous oxide for photocatalytic and photoelectrochemical energy conversion. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019 , 40, 191-211	16.4	65
120	Experimental Results for Tailored Spectrum Splitting Metallic Nanofluids for c-Si, GaAs, and Ge Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 385-390	3.7	13
119	Plasmonic effects on CO ₂ reduction over bimetallic Ni-Au catalysts. <i>Chemical Engineering Science</i> , 2019 , 194, 94-104	4.4	25
118	Improving the Photo-Oxidative Performance of BiMoO by Harnessing the Synergy between Spatial Charge Separation and Rational Co-Catalyst Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9342-9352	9.5	34
117	In Situ Exsolution of Bimetallic Rh-Ni Nanoalloys: a Highly Efficient Catalyst for CO Methanation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16352-16357	9.5	60
116	Transformation of Cuprous Oxide into Hollow Copper Sulfide Cubes for Photocatalytic Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14072-14081	3.8	35
115	Synthesis of 2D MFI zeolites in the form of self-interlocked nanosheet stacks with tuneable structural and chemical properties for catalysis. <i>Applied Materials Today</i> , 2018 , 11, 22-33	6.6	10
114	2D versus 3D MFI zeolite: The effect of Si/Al ratio on the accessibility of acid sites and catalytic performance. <i>Materials Today Chemistry</i> , 2018 , 8, 1-12	6.2	9
113	Hierarchically Porous Network-Like Ni/Co ₃ O ₄ : Noble Metal-Free Catalysts for Carbon Dioxide Methanation. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700119	5.9	26
112	Exploring the effects of heat and UV exposure on glycerol-based Ag-SiO ₂ nanofluids for PV/T applications. <i>Renewable Energy</i> , 2018 , 120, 266-274	8.1	37
111	Core/Shell NiFe Nanoalloy with a Discrete N-doped Graphitic Carbon Cover for Enhanced Water Oxidation. <i>ChemElectroChem</i> , 2018 , 5, 732-736	4.3	19
110	Role of support in photothermal carbon dioxide hydrogenation catalysed by Ni/CexTiyO ₂ . <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 168-177	3.6	27
109	Revealing the key oxidative species generated by Pt-loaded metal oxides under dark and light conditions. <i>Applied Catalysis B: Environmental</i> , 2018 , 223, 216-227	21.8	19
108	Promoting Catalytic Oxygen Activation by Localized Surface Plasmon Resonance: Effect of Visible Light Pre-treatment and Bimetallic Interactions. <i>ChemCatChem</i> , 2018 , 10, 287-295	5.2	8
107	Construction of a Bi ₂ MoO ₆ :Bi ₂ Mo ₃ O ₁₂ heterojunction for efficient photocatalytic oxygen evolution. <i>Chemical Engineering Journal</i> , 2018 , 353, 636-644	14.7	33
106	Concentration-Mediated Band Gap Reduction of Bi ₂ MoO ₆ Photoanodes Prepared by Bi ³⁺ Cation Insertions into Anodized MoO ₃ Thin Films: Structural, Optical, and Photoelectrochemical Properties. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3955-3964	6.1	10
105	Photocorrosion of Cuprous Oxide in Hydrogen Production: Rationalising Self-Oxidation or Self-Reduction. <i>Angewandte Chemie</i> , 2018 , 130, 13801-13805	3.6	39

104	A comparison of carbon footprints of magnesium oxide and magnesium hydroxide produced from conventional processes. <i>Journal of Cleaner Production</i> , 2018 , 202, 1035-1044	10.3	11
103	Photocorrosion of Cuprous Oxide in Hydrogen Production: Rationalising Self-Oxidation or Self-Reduction. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13613-13617	16.4	112
102	Multipronged Validation of Oxalate C-O Bond Cleavage Driven by Au-TiO ₂ Interfacial Charge Transfer Using Operando DRIFTS. <i>ACS Catalysis</i> , 2018 , 8, 7158-7163	13.1	6
101	Correlating morphology and doping effects with the carbon monoxide catalytic activity of Zn doped CeO ₂ nanocrystals. <i>Catalysis Science and Technology</i> , 2018 , 8, 134-138	5.5	15
100	TiO ₂ /porous adsorbents: Recent advances and novel applications. <i>Journal of Hazardous Materials</i> , 2018 , 341, 404-423	12.8	129
99	Single Atom and Nanoclustered Pt Catalysts for Selective CO ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6781-6789	6.1	56
98	Elucidating the impact of Ni and Co loading on the selectivity of bimetallic NiCo catalysts for dry reforming of methane. <i>Chemical Engineering Journal</i> , 2018 , 352, 572-580	14.7	85
97	The Impact of La Doping on Dry Reforming Ni-Based Catalysts Loaded on FSP-Alumina. <i>Topics in Catalysis</i> , 2018 , 61, 1842-1855	2.3	12
96	Photo-driven synthesis of polymer-coated platinumized ZnO nanoparticles with enhanced photoelectrochemical charge transportation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4568-4575	13	14
95	Design and analysis of a medium-temperature, concentrated solar thermal collector for air-conditioning applications. <i>Applied Energy</i> , 2017 , 190, 1159-1173	10.7	47
94	Light, Catalyst, Activation: Boosting Catalytic Oxygen Activation Using a Light Pretreatment Approach. <i>ACS Catalysis</i> , 2017 , 7, 3644-3653	13.1	17
93	Recent advances in ordered meso/macroporous metal oxides for heterogeneous catalysis: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8825-8846	13	196
92	The controlled disassembly of mesostructured perovskites as an avenue to fabricating high performance nanohybrid catalysts. <i>Nature Communications</i> , 2017 , 8, 15553	17.4	52
91	Tailoring the multi-functionalities of one-dimensional ceria nanostructures via oxygen vacancy modulation. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 305-314	9.3	14
90	A review on photo-thermal catalytic conversion of carbon dioxide. <i>Green Energy and Environment</i> , 2017 , 2, 204-217	5.7	110
89	Improving the photo-oxidative capability of BiOBr via crystal facet engineering. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8117-8124	13	124
88	Design and synthesis of CeO ₂ nanowire/MnO ₂ nanosheet heterogeneous structure for enhanced catalytic properties. <i>Materials Today Communications</i> , 2017 , 11, 103-111	2.5	21
87	Enhancing bimetallic synergy with light: the effect of UV light pre-treatment on catalytic oxygen activation by bimetallic AuPt nanoparticles on a TiO ₂ support. <i>Catalysis Science and Technology</i> , 2017 , 7, 4792-4805	5.5	21

86	Plasmon enhanced selective electronic pathways in TiO ₂ supported atomically ordered bimetallic Au-Cu alloys. <i>Journal of Catalysis</i> , 2017 , 352, 638-648	7.3	12
85	An Operando Mechanistic Evaluation of a Solar-Rechargeable Sodium-Ion Intercalation Battery. <i>Advanced Energy Materials</i> , 2017 , 7, 1700545	21.8	25
84	Harnessing the Beneficial Attributes of Ceria and Titania in a Mixed-Oxide Support for Nickel-Catalyzed Photothermal CO ₂ Methanation. <i>Engineering</i> , 2017 , 3, 393-401	9.7	25
83	Flame spray pyrolysis-designed silica/ceria-zirconia supports for the carbon dioxide reforming of methane. <i>Applied Catalysis A: General</i> , 2017 , 546, 47-57	5.1	30
82	Manipulating ceria-titania binary oxide features and their impact as nickel catalyst supports for low temperature steam reforming of methane. <i>Applied Catalysis A: General</i> , 2017 , 530, 111-124	5.1	18
81	Experimental and numerical investigation of volumetric versus surface solar absorbers for a concentrated solar thermal collector. <i>Solar Energy</i> , 2016 , 136, 349-364	6.8	48
80	C-Cleavage by Au/TiO ₂ during Ethanol Oxidation: Understanding Bandgap Photoexcitation and Plasmonically Mediated Charge Transfer via Quantitative in Situ DRIFTS. <i>ACS Catalysis</i> , 2016 , 6, 8021-8029	13.1	29
79	Enhancing Ni-SiO ₂ catalysts for the carbon dioxide reforming of methane: Reduction-oxidation-reduction pre-treatment. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 155-165	21.8	53
78	The role of adsorbed oxygen in formic acid oxidation by Pt/TiO ₂ facilitated by light pre-treatment. <i>Catalysis Science and Technology</i> , 2016 , 6, 6679-6687	5.5	20
77	Energy concentration limits in solar thermal heating applications. <i>Energy</i> , 2016 , 96, 253-267	7.9	21
76	Exploring Cu oxidation state on TiO ₂ and its transformation during photocatalytic hydrogen evolution. <i>Applied Catalysis A: General</i> , 2016 , 521, 190-201	5.1	55
75	Understanding Plasmon and Band Gap Photoexcitation Effects on the Thermal-Catalytic Oxidation of Ethanol by TiO ₂ -Supported Gold. <i>ACS Catalysis</i> , 2016 , 6, 1870-1879	13.1	89
74	Photoelectrochemical water oxidation using a Bi ₂ MoO ₆ /MoO ₃ heterojunction photoanode synthesised by hydrothermal treatment of an anodised MoO ₃ thin film. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6964-6971	13	62
73	Hybrid PV/T enhancement using selectively absorbing AgBiO ₂ /carbon nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 281-287	6.4	153
72	Hydrogen evolution via glycerol photoreforming over CuPt nanoalloys on TiO ₂ . <i>Applied Catalysis A: General</i> , 2016 , 518, 221-230	5.1	32
71	Meso-Molding Three-Dimensional Macroporous Perovskites: A New Approach to Generate High-Performance Nanohybrid Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2457-63	9.5	55
70	Ni/TiO ₂ for low temperature steam reforming of methane. <i>Chemical Engineering Science</i> , 2016 , 140, 161-170	17.0	50
69	An Alumina-Supported Ni-La-Based Catalyst for Producing Synthetic Natural Gas. <i>Catalysts</i> , 2016 , 6, 170	4	30

68	Spectrum splitting using gold and silver nanofluids for photovoltaic/thermal collectors 2016 ,		2
67	Mobile Polaronic States in γ -MoO ₃ : An ab Initio Investigation of the Role of Oxygen Vacancies and Alkali Ions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10911-7	9.5	40
66	High Performance AuPd Supported on 3D Hybrid Strontium-Substituted Lanthanum Manganite Perovskite Catalyst for Methane Combustion. <i>ACS Catalysis</i> , 2016 , 6, 6935-6947	13.1	117
65	Investigating the effect of UV light pre-treatment on the oxygen activation capacity of Au/TiO ₂ . <i>Catalysis Science and Technology</i> , 2016 , 6, 8188-8199	5.5	9
64	An investigation of thermal stability of carbon nanofluids for solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 652-659	6.4	49
63	Enhancing the catalytic oxidation capacity of Pt/TiO ₂ using a light pre-treatment approach. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 10-17	21.8	34
62	Selective Solar Absorption of Nanofluids for Photovoltaic/Thermal Collector Enhancement. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1779, 53-58		4
61	Ni-SiO ₂ catalysts for the carbon dioxide reforming of methane: varying support properties by flame spray pyrolysis. <i>Molecules</i> , 2015 , 20, 4594-609	4.8	50
60	Experimental investigation of a nanofluid absorber employed in a low-profile, concentrated solar thermal collector 2015 ,		6
59	Thermal analysis of a micro solar thermal collector designed for methanol reforming. <i>Solar Energy</i> , 2015 , 113, 189-198	6.8	23
58	Harvesting, storing and utilising solar energy using MoO ₃ : modulating structural distortion through pH adjustment. <i>ChemSusChem</i> , 2014 , 7, 1934-41	8.3	32
57	CO ₂ reforming of methane over MCM-41-supported nickel catalysts: altering support acidity by one-pot synthesis at room temperature. <i>Applied Catalysis A: General</i> , 2014 , 473, 51-58	5.1	66
56	TiO ₂ -supported copper nanoparticles prepared via ion exchange for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6432-6438	13	79
55	CuO x dispersion and reducibility on TiO ₂ and its impact on photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12499-12506	6.7	49
54	Stimuli-responsive functionalized mesoporous silica nanoparticles for drug release in response to various biological stimuli. <i>Biomaterials Science</i> , 2014 , 2, 121-130	7.4	75
53	Influence of MoO ₃ (110) crystalline plane on its self-charging photoelectrochemical properties. <i>Scientific Reports</i> , 2014 , 4, 7428	4.9	53
52	Tungsten trioxide as a visible light photocatalyst for volatile organic carbon removal. <i>Molecules</i> , 2014 , 19, 17747-62	4.8	53
51	Impact of Cu oxidation state on photocatalytic H ₂ production by Cu/TiO ₂ 2014 ,		1

50	Coal-packed methane biofilter for mitigation of green house gas emissions from coal mine ventilation air. <i>PLoS ONE</i> , 2014 , 9, e94641	3.7	34
49	Challenges to Developing Methane Biofiltration for Coal Mine Ventilation Air: A Review. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	32
48	Photocatalysis of heat treated sodium- and hydrogen-titanate nanoribbons for water splitting, H ₂ /O ₂ generation and oxalic acid oxidation. <i>Chemical Engineering Science</i> , 2013 , 93, 341-349	4.4	28
47	Ethylene oligomerisation over Co/SiO ₂ in the presence of trace carbon monoxide: The Eius reaction revisited. <i>Catalysis Today</i> , 2013 , 215, 267-275	5.3	5
46	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013 , 23, 720-730	15.6	65
45	Exploring the relationship between surface structure and photocatalytic activity of flame-made TiO ₂ -based catalysts. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 290-297	21.8	25
44	Progress in Heterogeneous Photocatalysis: From Classical Radical Chemistry to Engineering Nanomaterials and Solar Reactors. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 629-39	6.4	344
43	Hydrothermally synthesized titanate nanostructures: impact of heat treatment on particle characteristics and photocatalytic properties. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3988-96	9.5	58
42	Temperature-induced evolution of reaction sites and mechanisms during preferential oxidation of CO. <i>Journal of Catalysis</i> , 2011 , 277, 64-71	7.3	75
41	Photocatalysis in TiO ₂ aqueous suspension: Effects of mono- or di-hydroxyl substitution of butanedioic acid on the disappearance and mineralisation rates. <i>Catalysis Today</i> , 2011 , 178, 51-57	5.3	15
40	The effect of support and synthesis method on the methanation activity of alumina-supported cobalt-ruthenium-lanthana catalysts. <i>Catalysis Today</i> , 2011 , 178, 79-84	5.3	13
39	The impact of ruthenium, lanthanum and activation conditions on the methanation activity of alumina-supported cobalt catalysts. <i>Catalysis Today</i> , 2011 , 164, 297-301	5.3	38
38	A mesoporous SiO ₂ intermediate layer for improving light propagation in a bundled tube photoreactor. <i>Chemical Engineering Science</i> , 2011 , 66, 3641-3647	4.4	4
37	Relationship between mineralization kinetics and mechanistic pathway during malic acid photodegradation. <i>Journal of Molecular Catalysis A</i> , 2011 , 335, 151-157		13
36	Microbial transformation of arsenic species in municipal landfill leachate. <i>Journal of Hazardous Materials</i> , 2011 , 188, 140-7	12.8	20
35	Integrated photocatalytic filtration array for indoor air quality control. <i>Environmental Science & Technology</i> , 2010 , 44, 5558-63	10.3	27
34	Understanding Hydrothermal Titanate Nanoribbon Formation. <i>Crystal Growth and Design</i> , 2010 , 10, 3618-3625	9.3	63
33	Understanding photocatalytic metallization of preadsorbed ionic gold on titania, ceria, and zirconia. <i>Langmuir</i> , 2010 , 26, 2099-106	4	29

32	Arsenic speciation in municipal landfill leachate. <i>Chemosphere</i> , 2010 , 79, 794-801	8.4	25
31	The influence of La-doping on the activity and stability of Cu/ZnO catalyst for the low-temperature water-gas shift reaction. <i>Journal of Catalysis</i> , 2010 , 273, 73-81	7.3	81
30	Channelled optical fibre photoreactor for improved air quality control. <i>Chemical Engineering Science</i> , 2010 , 65, 882-889	4.4	27
29	Computational fluid dynamics modelling and optimal configuring of a channelled optical fibre photoreactor. <i>Chemical Engineering Science</i> , 2010 , 65, 5029-5040	4.4	10
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25	Effect of film thickness and agglomerate size on the superwetting and fog-free characteristics of TiO ₂ films. <i>Thin Solid Films</i> , 2009 , 517, 5425-5430	2.2	36
24	The role of iron in hexavalent chromium reduction by municipal landfill leachate. <i>Journal of Hazardous Materials</i> , 2009 , 161, 657-62	12.8	11
23	CFD modelling for a TiO ₂ -coated glass-bead photoreactor irradiated by optical fibres: Photocatalytic degradation of oxalic acid. <i>Chemical Engineering Science</i> , 2009 , 64, 1695-1706	4.4	51
22	Probing Surface Properties and Reaction Intermediates During Heterogeneous Catalytic Oxidation of Acetaldehyde. <i>ChemCatChem</i> , 2009 , 1, 286-294	5.2	17
21	Preparation of high porous Pt/WO ₃ /TiO ₂ /SiC filter for simultaneous removal of NO and particulates. <i>Powder Technology</i> , 2008 , 180, 79-85	5.2	26
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17	Microbial reduction of hexavalent chromium by landfill leachate. <i>Journal of Hazardous Materials</i> , 2007 , 142, 153-9	12.8	19
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