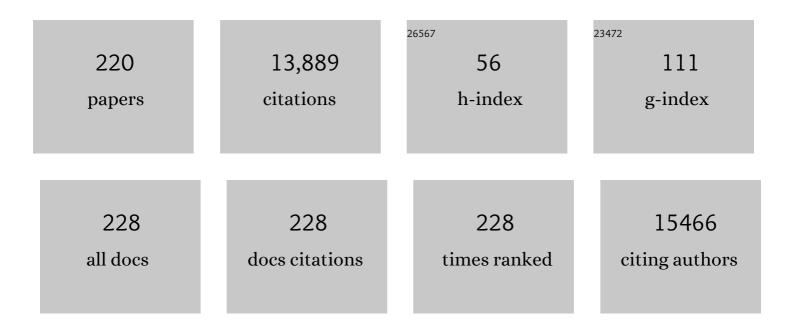
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Status and perspectives of CO2 conversion into fuels and chemicals by catalytic, photocatalytic and electrocatalytic processes. Energy and Environmental Science, 2013, 6, 3112.	15.6	1,475
2	Methods, Mechanism, and Applications of Photodeposition in Photocatalysis: A Review. Chemical Reviews, 2016, 116, 14587-14619.	23.0	731
3	Electrochemical CO ₂ reduction on Cu ₂ O-derived copper nanoparticles: controlling the catalytic selectivity of hydrocarbons. Physical Chemistry Chemical Physics, 2014, 16, 12194-12201.	1.3	458
4	Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin. Nature Communications, 2015, 6, 8177.	5.8	456
5	A review of intensification of photocatalytic processes. Chemical Engineering and Processing: Process Intensification, 2007, 46, 781-789.	1.8	387
6	Manipulating the Hydrocarbon Selectivity of Copper Nanoparticles in CO ₂ Electroreduction by Process Conditions. ChemElectroChem, 2015, 2, 354-358.	1.7	361
7	Artificial Photosynthesis over Crystalline TiO ₂ -Based Catalysts: Fact or Fiction?. Journal of the American Chemical Society, 2010, 132, 8398-8406.	6.6	343
8	Three-dimensional porous hollow fibre copper electrodes for efficient and high-rate electrochemical carbon dioxide reduction. Nature Communications, 2016, 7, 10748.	5.8	294
9	Isoreticular MOFs as Efficient Photocatalysts with Tunable Band Gap: An Operando FTIR Study of the Photoinduced Oxidation of Propylene. ChemSusChem, 2008, 1, 981-983.	3.6	246
10	Stability and Selectivity of Au/TiO2 and Au/TiO2/SiO2 Catalysts in Propene Epoxidation: An in Situ FT-IR Study. Journal of Catalysis, 2001, 201, 128-137.	3.1	244
11	InÂsitu investigation of the thermal decomposition of Co–Al hydrotalcite in different atmospheres. Journal of Materials Chemistry, 2001, 11, 821-830.	6.7	218
12	CeO2 catalysed soot oxidation. Applied Catalysis B: Environmental, 2004, 51, 9-19.	10.8	209
13	Mesoporous silica material TUD-1 as a drug delivery system. International Journal of Pharmaceutics, 2007, 331, 133-138.	2.6	202
14	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. Journal of Catalysis, 2002, 207, 113-126.	3.1	197
15	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. Catalysis Today, 2000, 60, 93-109.	2.2	194
16	Synergy of ferroelectric polarization and oxygen vacancy to promote CO2 photoreduction. Nature Communications, 2021, 12, 4594.	5.8	180
17	Evaluation of Mesoporous TCPSi, MCM-41, SBA-15, and TUD-1 Materials as API Carriers for Oral Drug Delivery. Drug Delivery, 2007, 14, 337-347.	2.5	169
18	The effect of surface OH-population on the photocatalytic activity of rare earth-doped P25-TiO2 in methylene blue degradation. Journal of Catalysis, 2008, 260, 75-80.	3.1	169

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19	Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N2O decomposition. Journal of Catalysis, 2003, 214, 33-45.	3.1	167
20	NO-Assisted N2O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. Journal of Catalysis, 2002, 208, 211-223.	3.1	156
21	Selective photo(catalytic)-oxidation of cyclohexane: Effect of wavelength and TiO2 structure on product yields. Journal of Catalysis, 2006, 238, 342-352.	3.1	153
22	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of Co–Al and Ni–Al hydrotalcites. Vibrational Spectroscopy, 2001, 27, 75-88.	1.2	149
23	Palladium–gold catalyst for the electrochemical reduction of CO ₂ to C ₁ –C ₅ hydrocarbons. Chemical Communications, 2016, 52, 10229-10232.	2.2	146
24	Islanded ammonia power systems: Technology review & conceptual process design. Renewable and Sustainable Energy Reviews, 2019, 114, 109339.	8.2	141
25	CO2 photoreduction using NiO/InTaO4 in optical-fiber reactor for renewable energy. Applied Catalysis A: General, 2010, 380, 172-177.	2.2	139
26	Soot oxidation catalyzed by a Cu/K/Mo/Cl catalyst: evaluation of the chemistry and performance of the catalyst. Applied Catalysis B: Environmental, 1995, 6, 339-352.	10.8	131
27	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. Applied Catalysis A: General, 2008, 334, 119-128.	2.2	124
28	Mechanistic study of hydrocarbon formation in photocatalytic CO2 reduction over Ti-SBA-15. Journal of Catalysis, 2011, 284, 1-8.	3.1	118
29	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO ₂ . Journal of Physical Chemistry C, 2011, 115, 2211-2217.	1.5	117
30	Surface Ti ³⁺ -Containing (blue) Titania: A Unique Photocatalyst with High Activity and Selectivity in Visible Light-Stimulated Selective Oxidation. ACS Catalysis, 2012, 2, 2641-2647.	5.5	108
31	Superior performance of ex-framework FeZSM-5 in direct N2O decomposition in tail-gases from nitric acid plants. Chemical Communications, 2001, , 693-694.	2.2	107
32	DRIFTS study of the water–gas shift reaction over Au/Fe2O3. Journal of Catalysis, 2006, 243, 171-182.	3.1	106
33	Ex-framework FeZSM-5 for control of N2O in tail-gases. Catalysis Today, 2002, 76, 55-74.	2.2	104
34	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO ₂ . Journal of Physical Chemistry C, 2008, 112, 1552-1561.	1.5	100
35	Catalytic oxidation of model soot by metal chlorides. Applied Catalysis B: Environmental, 1997, 12, 33-47.	10.8	98
36	The formation of carbon surface oxygen complexes by oxygen and ozone. The effect of transition metal oxides. Carbon, 1998, 36, 1269-1276.	5.4	98

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37	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. Catalysis Letters, 2002, 80, 129-138.	1.4	97
38	Highly active SO2-resistant ex-framework FeMFI catalysts for direct N2O decomposition. Applied Catalysis B: Environmental, 2002, 35, 227-234.	10.8	96
39	Transition Metal Oxide Catalyzed Carbon Black Oxidation: A Study with18O2. Journal of Catalysis, 1998, 179, 258-266.	3.1	95
40	TUD-1: synthesis and application of a versatile catalyst, carrier, material…. Journal of Materials Chemistry, 2010, 20, 642-658.	6.7	92
41	Transient Behavior of Ni@NiO _{<i>x</i>} Functionalized SrTiO ₃ in Overall Water Splitting. ACS Catalysis, 2017, 7, 1610-1614.	5.5	88
42	Synthesis, characterization, and unique catalytic performance of the mesoporous material Fe-TUD-1 in Friedel–Crafts benzylation of benzene. Catalysis Today, 2005, 100, 255-260.	2.2	85
43	Enabling Electrocatalytic Fischer–Tropsch Synthesis from Carbon Dioxide Over Copper-based Electrodes. Catalysis Letters, 2008, 123, 186-192.	1.4	85
44	Title is missing!. Catalysis Letters, 2003, 86, 121-132.	1.4	83
45	On the mechanism of model diesel soot-O2 reaction catalysed by Pt-containing La3+-doped CeO2A TAP study with isotopic O2. Catalysis Today, 2007, 121, 237-245.	2.2	80
46	Mechanism of Laccase–TEMPO atalyzed Oxidation of Benzyl Alcohol. ChemCatChem, 2010, 2, 827-833.	1.8	77
47	Toward a Physically Sound Structureâ^'Activity Relationship of TiO ₂ -Based Photocatalysts. Journal of Physical Chemistry C, 2010, 114, 327-332.	1.5	76
48	Driving Surface Redox Reactions in Heterogeneous Photocatalysis: The Active State of Illuminated Semiconductor-Supported Nanoparticles during Overall Water-Splitting. ACS Catalysis, 2018, 8, 9154-9164.	5.5	68
49	A novel TiO2 composite for photocatalytic wastewater treatment. Journal of Catalysis, 2014, 310, 75-83.	3.1	67
50	Substrate Specificity in Photocatalytic Degradation of Mixtures of Organic Contaminants in Water. ACS Catalysis, 2016, 6, 1254-1262.	5.5	67
51	In Situ Raman Study of Potentialâ€Đependent Surface Adsorbed Carbonate, CO, OH, and C Species on Cu Electrodes During Electrochemical Reduction of CO ₂ . ChemElectroChem, 2021, 8, 1478-1485.	1.7	67
52	Real-time in situ ATR-FTIR analysis of the liquid phase hydrogenation of γ-butyrolactone over Cu-ZnO catalysts: A mechanistic study by varying lactone ring size. Chemical Engineering Science, 2004, 59, 5479-5485.	1.9	66
53	How Gold Deposition Affects Anatase Performance in the Photo-catalytic Oxidation of Cyclohexane. Catalysis Letters, 2009, 129, 12-19.	1.4	64
54	Porous Photocatalytic Membrane Microreactor (P2M2): A new reactor concept for photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 225, 36-41.	2.0	61

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55	NO-Assisted N2O Decomposition over ex-Framework FeZSM-5: Mechanistic Aspects. Catalysis Letters, 2001, 77, 7-13.	1.4	60
56	On the stability of the thermally decomposed Co-Al hydrotalcite against retrotopotactic transformation. Materials Research Bulletin, 2001, 36, 1767-1775.	2.7	57
57	Strategies to Design Efficient Silica-Supported Photocatalysts for Reduction of CO ₂ . Journal of the American Chemical Society, 2014, 136, 594-597.	6.6	56
58	Bimetallic Cu-based hollow fibre electrodes for CO2 electroreduction. Catalysis Today, 2020, 346, 34-39.	2.2	55
59	Photocatalytic oxidation of cyclohexane by titanium dioxide: Catalyst deactivation and regeneration. Journal of Catalysis, 2010, 273, 199-210.	3.1	54
60	Photocatalytic Oxidation of Cyclohexane over TiO ₂ : Evidence for a Marsâ^'van Krevelen Mechanism. Journal of Physical Chemistry C, 2011, 115, 1330-1338.	1.5	54
61	Fe, Co and Cu-incorporated TUD-1: Synthesis, characterization and catalytic performance in N2O decomposition and cyclohexane oxidation. Catalysis Today, 2005, 110, 264-271.	2.2	52
62	TiO2 Nanoparticles in Mesoporous TUD-1: Synthesis, Characterization and Photocatalytic Performance in Propane Oxidation. Chemistry - A European Journal, 2006, 12, 620-628.	1.7	52
63	Feasibility study towards a Cu/K/Mo/(Cl) soot oxidation catalyst for application in diesel exhaust gases. Applied Catalysis B: Environmental, 1997, 11, 365-382.	10.8	50
64	Beyond Water Splitting: Efficiencies of Photoâ€Electrochemical Devices Producing Hydrogen and Valuable Oxidation Products. Advanced Sustainable Systems, 2017, 1, 1600035.	2.7	50
65	Highly active and stable ion-exchanged Fe–Ferrierite catalyst for N2O decomposition under nitric acid tail gas conditions. Catalysis Communications, 2005, 6, 301-305.	1.6	49
66	Operando ATR-FTIR analysis of liquid-phase catalytic reactions: can heterogeneous catalysts be observed?. Vibrational Spectroscopy, 2004, 34, 109-121.	1.2	48
67	Acrylate and propoxy-groups: Contributors to deactivation of Au/TiO2 in the epoxidation of propene. Journal of Catalysis, 2009, 266, 286-290.	3.1	47
68	Characterization and performance of Pt-USY in the SCR of NOx with hydrocarbons under lean-burn conditions. Applied Catalysis B: Environmental, 2001, 29, 285-298.	10.8	46
69	Cyclohexane selective photocatalytic oxidation by anatase TiO2: influence of particle size and crystallinity. Physical Chemistry Chemical Physics, 2010, 12, 2744.	1.3	46
70	Time-Dependent Photoluminescence of Nanostructured Anatase TiO ₂ and the Role of Bulk and Surface Processes. Journal of Physical Chemistry C, 2019, 123, 26653-26661.	1.5	46
71	Ti3+-containing titania: Synthesis tactics and photocatalytic performance. Catalysis Today, 2015, 246, 60-66.	2.2	45
72	Experimental evidence for electron localization on Au upon photo-activation of Au/anatase catalysts. Physical Chemistry Chemical Physics, 2009, 11, 2708.	1.3	44

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73	Infrared Analysis of Interfacial Phenomena during Electrochemical Reduction of CO ₂ over Polycrystalline Copper Electrodes. ACS Catalysis, 2020, 10, 8049-8057.	5.5	44
74	The effect of NOx and CO on the rate of transition metal oxide catalyzed carbon black oxidation: An exploratory study. Applied Catalysis B: Environmental, 1998, 17, 205-220.	10.8	43
75	Understanding promotion of photocatalytic activity of TiO 2 by Au nanoparticles. Journal of Catalysis, 2014, 319, 194-199.	3.1	43
76	E. coli inactivation by visible light irradiation using a Fe–Cd/TiO 2 photocatalyst: Statistical analysis and optimization of operating parameters. Applied Catalysis B: Environmental, 2015, 168-169, 441-447.	10.8	43
77	Decomposition of nitrous oxide over ZSM-5 catalysts. Studies in Surface Science and Catalysis, 1996, , 641-650.	1.5	40
78	Following the evolution of iron from framework to extra-framework positions in isomorphously substituted [Fe,Al]MFI with Fe M�ssbauer spectroscopy. Journal of Catalysis, 2005, 231, 56-66.	3.1	40
79	Synthesis, characterization and catalytic performance of Mo-TUD-1 catalysts in epoxidation of cyclohexene. Catalysis Science and Technology, 2012, 2, 1894.	2.1	40
80	Electrochemical generation of hydrogen peroxide using surface area-enhanced Ti-mesh electrodes. Electrochimica Acta, 2007, 52, 6304-6309.	2.6	39
81	Disposable Attenuated Total Reflection-Infrared Crystals from Silicon Wafer: A Versatile Approach to Surface Infrared Spectroscopy. Analytical Chemistry, 2013, 85, 33-38.	3.2	39
82	Photocatalytic Activity of ZnV ₂ O ₆ /Reduced Graphene Oxide Nanocomposite: From Theory to Experiment. Journal of the Electrochemical Society, 2018, 165, H353-H359.	1.3	39
83	Comparative Analysis of Photocatalytic and Electrochemical Degradation of 4-Ethylphenol in Saline Conditions. Environmental Science & Technology, 2019, 53, 8725-8735.	4.6	39
84	Improved performance of TiO2 in the selective photo-catalytic oxidation of cyclohexane by increasing the rate of desorption through surface silylation. Journal of Catalysis, 2010, 273, 116-124.	3.1	38
85	Monitoring the catalytic synthesis of glycerol carbonate by real-time attenuated total reflection FTIR spectroscopy. Applied Catalysis A: General, 2011, 409-410, 106-112.	2.2	38
86	High-throughput experimentation in catalyst testing and in kinetic studies for heterogeneous catalysis. Catalysis Today, 2003, 81, 457-471.	2.2	37
87	MultiTRACK and operando Raman-GC study of oxidative dehydrogenation of propane over alumina-supported vanadium oxide catalysts. Physical Chemistry Chemical Physics, 2003, 5, 4378-4383.	1.3	37
88	Synergy between metals in bimetallic zeolite supported catalyst for NO-promoted N2O decomposition. Catalysis Letters, 2005, 99, 41-44.	1.4	37
89	Sorptionâ€Determined Deposition of Platinum on Wellâ€Defined Platelike WO ₃ . Angewandte Chemie - International Edition, 2014, 53, 12476-12479.	7.2	37
90	Efficient catalytic epoxidation of olefins with silylated Ti-TUD-1 catalysts. Journal of Catalysis, 2008, 260, 288-294.	3.1	36

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91	Electrochemical synthesis of coaxial TiO ₂ –Ag nanowires and their application in photocatalytic water splitting. Journal of Materials Chemistry A, 2014, 2, 2648-2656.	5.2	36
92	Industrial feasibility of anodic hydrogen peroxide production through photoelectrochemical water splitting: a techno-economic analysis. Sustainable Energy and Fuels, 2020, 4, 3143-3156.	2.5	36
93	Selective Electrochemical Oxidation of H ₂ O to H ₂ O ₂ Using Boron-Doped Diamond: An Experimental and Techno-Economic Evaluation. ACS Sustainable Chemistry and Engineering, 2021, 9, 7803-7812.	3.2	36
94	A spectroscopic study of the effect of the trivalent cation on the thermal decomposition behaviour of Co-based hydrotalcites. Journal of Materials Chemistry, 2001, 11, 2529-2536.	6.7	35
95	Catalytic synthesis of methanethiol from hydrogen sulfide and carbon monoxide over vanadium-based catalysts. Catalysis Today, 2003, 78, 327-337.	2.2	34
96	Characterization of Fe sites in Fe-zeolites by FTIR spectroscopy of adsorbed NO: are the spectra obtained in static vacuum and dynamic flow set-ups comparable?. Physical Chemistry Chemical Physics, 2010, 12, 358-364.	1.3	34
97	N2O Decomposition over Liquid Ion-Exchanged Fe-BEA Catalysts: Correlation Between Activity and the IR Intensity of Adsorbed NO at 1874 cm-1. Catalysis Letters, 2004, 93, 113-120.	1.4	33
98	Ag-Functionalized CuWO ₄ /WO ₃ nanocomposites for solar water splitting. New Journal of Chemistry, 2019, 43, 2196-2203.	1.4	33
99	Facetâ€Dependent Surface Charge and Hydration of Semiconducting Nanoparticles at Variable pH. Advanced Materials, 2021, 33, e2106229.	11.1	33
100	Identification of the role of surface acidity in the deactivation of TiO2 in the selective photo-oxidation of cyclohexane. Catalysis Today, 2009, 143, 326-333.	2.2	32
101	The effect of Au on TiO2 catalyzed selective photocatalytic oxidation of cyclohexane. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 326-332.	2.0	32
102	An internally illuminated monolith reactor: Pros and cons relative to a slurry reactor. Catalysis Today, 2009, 147, S324-S329.	2.2	31
103	Promoting Photocatalytic Overall Water Splitting by Controlled Magnesium Incorporation in SrTiO ₃ Photocatalysts. ChemSusChem, 2017, 10, 4510-4516.	3.6	31
104	Efficient NO adsorption and release at Fe3+ sites in Fe/TiO2 nanoparticles. Energy and Environmental Science, 2011, 4, 2140.	15.6	30
105	Assessing the Role of Pt Clusters on TiO ₂ (P25) on the Photocatalytic Degradation of Acid Blue 9 and Rhodamine B. Journal of Physical Chemistry C, 2020, 124, 8269-8278.	1.5	30
106	On the activation of Pt/Al2O3 catalysts in HC-SCR by sintering: determination of redox-active sites using Multitrack. Applied Catalysis B: Environmental, 2003, 46, 687-702.	10.8	29
107	Photocatalytic decomposition of cortisone acetate in aqueous solution. Journal of Hazardous Materials, 2015, 282, 208-215.	6.5	29
108	Direct N2O decomposition over ex-framework FeMFI catalysts. Role of extra-framework species. Catalysis Communications, 2002, 3, 19-23.	1.6	28

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109	Electrochemical characterization of iron sites in ex-framework FeZSM-5. Journal of Electroanalytical Chemistry, 2002, 519, 72-84.	1.9	28
110	The effect of water on the performance of TiO2 in photocatalytic selective alkane oxidation. Journal of Catalysis, 2011, 277, 129-133.	3.1	28
111	The effect of active sites' nature on the photo-catalytic performance of Cr-TUD-1 in the oxidation of C1–C3 hydrocarbons. Applied Catalysis B: Environmental, 2015, 174-175, 413-420.	10.8	28
112	Towards sustainable chlorate production: The effect of permanganate addition on current efficiency. Journal of Cleaner Production, 2018, 182, 529-537.	4.6	27
113	Photocatalytic hydrogen production by photo-reforming of methanol with one-pot synthesized Pt-containing TiO2 photocatalysts. Catalysis Today, 2020, 356, 95-100.	2.2	27
114	Selective photocatalytic oxidation of cyclohexanol to cyclohexanone: A spectroscopic and kinetic study. Chemical Engineering Journal, 2020, 382, 122732.	6.6	27
115	A DRIFTS study of the interaction of alkali metal oxides with carbonaceous surfaces. Carbon, 1999, 37, 401-410.	5.4	26
116	Chromium-incorporated TUD-1 as a new visible light-sensitive photo-catalyst for selective oxidation of propane. Catalysis Today, 2006, 117, 337-342.	2.2	26
117	Effect of steaming of iron containing AlPO-5 on the structure and activity in N2O decomposition. Microporous and Mesoporous Materials, 2008, 112, 193-201.	2.2	26
118	Cyclohexene photo-oxidation over vanadia catalyst analyzed by time resolved ATR-FT-IR spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 3131.	1.3	26
119	Micromolding of solvent resistant microfluidic devices. Lab on A Chip, 2011, 11, 2035.	3.1	26
120	Insight into the origin of the limited activity and stability of p-Cu2O films in photoelectrochemical proton reduction. Electrochimica Acta, 2017, 245, 259-267.	2.6	26
121	pH-Dependence in facet-selective photo-deposition of metals and metal oxides on semiconductor particles. Journal of Materials Chemistry A, 2018, 6, 7500-7508.	5.2	26
122	Development of TiO2/Ti wire-mesh honeycomb for catalytic combustion of ethyl acetate in air. Applied Catalysis A: General, 2006, 313, 86-93.	2.2	25
123	How Pt nanoparticles affect TiO2-induced gas-phase photocatalytic oxidation reactions. Journal of Catalysis, 2015, 324, 119-126.	3.1	25
124	Reactivity of generated oxygen species from nitrous oxide over [Fe,Al]MFI catalysts for the direct oxidation of benzene to phenol. Catalysis Today, 2005, 110, 221-227.	2.2	24
125	Electrochemically Induced pH Change: Time-Resolved Confocal Fluorescence Microscopy Measurements and Comparison with Numerical Model. Journal of Physical Chemistry Letters, 2020, 11, 7042-7048.	2.1	24
126	Carbon-nitrogen bond formation on Cu electrodes during CO2 reduction in NO3- solution. Applied Catalysis B: Environmental, 2022, 316, 121512.	10.8	24

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127	Combined ATR-FTIR and DFT Study of Cyclohexanone Adsorption on Hydrated TiO ₂ Anatase Surfaces. Journal of Physical Chemistry C, 2011, 115, 14164-14172.	1.5	23
128	Controlled Doping Methods for Radial p/n Junctions in Silicon. Advanced Energy Materials, 2015, 5, 1401745.	10.2	23
129	Effect of Temperature and pH on Phase Transformations in Citric Acid Mediated Hydrothermal Growth of Tungsten Oxide. European Journal of Inorganic Chemistry, 2018, 2018, 917-923.	1.0	23
130	Pulsed electrochemical synthesis of formate using Pb electrodes. Applied Catalysis B: Environmental, 2020, 268, 118420.	10.8	23
131	FAPO and Fe-TUD-1: Promising catalysts for N2O mediated selective oxidation of propane?. Journal of Catalysis, 2009, 262, 1-8.	3.1	22
132	Attenuated Total Reflection-Infrared Nanofluidic Chip with 71 nL Detection Volume for <i>in Situ</i> Spectroscopic Analysis of Chemical Reaction Intermediates. Analytical Chemistry, 2012, 84, 3132-3137.	3.2	22
133	ZnO Nanowire Networks as Photoanode Model Systems for Photoelectrochemical Applications. Nanomaterials, 2018, 8, 693.	1.9	22
134	CrO _x -Mediated Performance Enhancement of Ni/NiO-Mg:SrTiO ₃ in Photocatalytic Water Splitting. ACS Catalysis, 2021, 11, 11049-11058.	5.5	22
135	Functioning devices for solar to fuel conversion. Chemical Engineering and Processing: Process Intensification, 2012, 51, 137-149.	1.8	21
136	In situ formed vanadium-oxide cathode coatings for selective hydrogen production. Applied Catalysis B: Environmental, 2019, 244, 233-239.	10.8	21
137	Effect of preparation procedures on the activity of supported palladium/lanthanum methanol decomposition catalysts. Catalysis Today, 2001, 65, 69-75.	2.2	20
138	Synthesis of photocatalytic TiO2 nano-coatings by supersonic cluster beam deposition. Journal of Alloys and Compounds, 2014, 615, S467-S471.	2.8	20
139	Photocatalytic methanol assisted production of hydrogen with simultaneous degradation of methyl orange. Applied Catalysis A: General, 2016, 518, 206-212.	2.2	19
140	The Effect of Methanol on the Photodeposition of Pt Nanoparticles on Tungsten Oxide. Particle and Particle Systems Characterization, 2018, 35, 1700250.	1.2	19
141	Systematic variation of 57Fe and Al content in isomorphously substituted 57FeZSM-5 zeolites: preparation and characterization. Microporous and Mesoporous Materials, 2004, 75, 237-246.	2.2	18
142	Product desorption limitations in selective photocatalytic oxidation. Catalysis Today, 2010, 155, 302-310.	2.2	18
143	Effects of bismuth addition and photo-deposition of platinum on (surface) composition, morphology and visible light photocatalytic activity of sol–gel derived TiO2. Applied Catalysis B: Environmental, 2014, 154-155, 153-160.	10.8	18
144	Correlating the Short-Time Current Response of a Hydrogen Evolving Nickel Electrode to Bubble Growth. Journal of the Electrochemical Society, 2019, 166, E280-E285.	1.3	18

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145	Elucidation of the Surprising Role of NO in N2O Decomposition over FeZSM-5. Kinetics and Catalysis, 2003, 44, 639-647.	0.3	17
146	Dispersion and Distribution of Ruthenium on Carbon-Coated Ceramic Monolithic Catalysts Prepared by Impregnation. Catalysis Letters, 2003, 90, 181-186.	1.4	17
147	Photo-catalytic oxidation of cyclohexane over TiO ₂ : a novel interpretation of temperature dependent performance. Physical Chemistry Chemical Physics, 2011, 13, 1345-1355.	1.3	17
148	Effects of Support, Particle Size, and Process Parameters on Co3O4Catalyzed H2O Oxidation Mediated by the [Ru(bpy)3]2+Persulfate System. ChemCatChem, 2013, 5, 550-556.	1.8	17
149	Catalytic Characterization of Mesoporous Ti–Silica Hollow Spheres. Catalysis Letters, 2006, 109, 207-210.	1.4	16
150	The effect of Rh ^{l̃'+} dopant in SrTiO ₃ on the active oxidation state of co-catalytic Pt nanoparticles in overall water splitting. Catalysis Science and Technology, 2016, 6, 7793-7799.	2.1	16
151	Unraveling the Mechanisms of Beneficial Cu-Doping of NiO-Based Photocathodes. Journal of Physical Chemistry C, 2021, 125, 16049-16058.	1.5	16
152	An Experimental Facility for the Study of Coal Pyrolysis at 10 Atmospheres. Energy & Fuels, 2000, 14, 692-700.	2.5	15
153	Dual Role of Surface Hydroxyl Groups in the Photodynamics and Performance of NiO-Based Photocathodes. Journal of the American Chemical Society, 2022, 144, 11010-11018.	6.6	15
154	Characterization of Iron Species in Ex-Framework FeZSM-5 by Electrochemical Methods. Catalysis Letters, 2002, 78, 303-312.	1.4	14
155	On the Wavelength-Dependent Performance of Cr-Doped Silica in Selective Photo-Oxidation. Journal of Physical Chemistry C, 2008, 112, 5471-5475.	1.5	14
156	The influence of water vapour on the photocatalytic oxidation of cyclohexane in an internally illuminated monolith reactor. Applied Catalysis A: General, 2014, 470, 63-71.	2.2	14
157	Spatioselective Electrochemical and Photoelectrochemical Functionalization of Silicon Microwires with Axial p/n Junctions. Advanced Materials, 2016, 28, 1400-1405.	11.1	14
158	Stability of Ag@SiO 2 core–shell particles in conditions of photocatalytic overall water-splitting. Journal of Energy Chemistry, 2017, 26, 309-314.	7.1	14
159	High throughput screening of photocatalytic conversion of pharmaceutical contaminants in water. Environmental Pollution, 2017, 220, 1199-1207.	3.7	14
160	Electrochemical formation of Cr(III)-based films on Au electrodes. Electrochimica Acta, 2019, 296, 1115-1121.	2.6	14
161	Mechanism and Micro Kinetic Model for Electroreduction of CO ₂ on Pd/C: The Role of Different Palladium Hydride Phases. ACS Catalysis, 2021, 11, 6883-6891.	5.5	14
162	Ultrafast Photoinduced Heat Generation by Plasmonic HfN Nanoparticles. Advanced Optical Materials, 2021, 9, 2100510.	3.6	14

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163	Investigation of the Deactivation Phenomena Occurring in the Cyclohexane Photocatalytic Oxidative Dehydrogenation on MoOx/TiO2 through Gas Phase and in situ DRIFTS Analyses. Catalysts, 2013, 3, 978-997.	1.6	13
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