

# Guido Mul

## 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.

213  
papers

11,025  
citations

53  
h-index

99  
g-index

228  
ext. papers

12,239  
ext. citations

8.3  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
213	Advanced oxidation processes for removal of organics from cooling tower blowdown: Efficiencies and evaluation of chlorinated species. <i>Separation and Purification Technology</i> , <b>2022</b> , 278, 119537	8.3	4
212	Carbon-Nitrogen bond formation on Cu electrodes during CO <sub>2</sub> reduction in NO <sub>3</sub> <sup>-</sup> solution. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121512	21.8	2
211	Facet-Dependent Surface Charge and Hydration of Semiconducting Nanoparticles at Variable pH. <i>Advanced Materials</i> , <b>2021</b> , 33, e2106229	24	8
210	In Situ Raman Study of Potential-Dependent Surface Adsorbed Carbonate, CO, OH, and C Species on Cu Electrodes During Electrochemical Reduction of CO <sub>2</sub> . <i>ChemElectroChem</i> , <b>2021</b> , 8, 1478-1485	4.3	17
209	Optimizing CO Coverage on Rough Copper Electrodes: Effect of the Partial Pressure of CO and Electrolyte Anions (pH) on Selectivity toward Ethylene. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6546-6554	3.8	2
208	Mixed Chromate and Molybdate Additives for Cathodic Enhancement in the Chlorate Process. <i>Electrocatalysis</i> , <b>2021</b> , 12, 447-455	2.7	2
207	Optimizing Temperature Treatment of Copper Hollow Fibers for the Electrochemical Reduction of CO <sub>2</sub> to CO. <i>Catalysts</i> , <b>2021</b> , 11, 571	4	0
206	Mechanism and Micro Kinetic Model for Electroreduction of CO <sub>2</sub> on Pd/C: The Role of Different Palladium Hydride Phases. <i>ACS Catalysis</i> , <b>2021</b> , 11, 6883-6891	13.1	3
205	Ultrafast Photoinduced Heat Generation by Plasmonic HfN Nanoparticles. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100510	8.1	6
204	Selective Electrochemical Oxidation of H <sub>2</sub> O to H <sub>2</sub> O <sub>2</sub> Using Boron-Doped Diamond: An Experimental and Techno-Economic Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7803-7812	8.3	12
203	Unraveling the Mechanisms of Beneficial Cu-Doping of NiO-Based Photocathodes. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 16049-16058	3.8	2
202	Electrochemical preparation of defect-engineered titania: Bulk doping versus surface contamination. <i>Applied Surface Science</i> , <b>2021</b> , 539, 148136	6.7	3
201	Synergy of ferroelectric polarization and oxygen vacancy to promote CO photoreduction. <i>Nature Communications</i> , <b>2021</b> , 12, 4594	17.4	41
200	CrO-Mediated Performance Enhancement of Ni/NiO-Mg:SrTiO in Photocatalytic Water Splitting. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11049-11058	13.1	6
199	Electroconvective Instability in Water Electrolysis: An Evaluation of Electroconvective Patterns and Their Onset Features. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	1
198	Facet-Dependent Surface Charge and Hydration of Semiconducting Nanoparticles at Variable pH (Adv. Mater. 52/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170414	24	
197	Assessing the Role of Pt Clusters on TiO <sub>2</sub> (P25) on the Photocatalytic Degradation of Acid Blue 9 and Rhodamine B. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8269-8278	3.8	13

196	Infrared Analysis of Interfacial Phenomena during Electrochemical Reduction of CO <sub>2</sub> over Polycrystalline Copper Electrodes. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8049-8057	13.1	15
195	Selective photocatalytic oxidation of cyclohexanol to cyclohexanone: A spectroscopic and kinetic study. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122732	14.7	12
194	Pulsed electrochemical synthesis of formate using Pb electrodes. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118420	21.8	6
193	Overall mass balance evaluation of electrochemical reactors: The case of CO <sub>2</sub> reduction. <i>Electrochimica Acta</i> , <b>2020</b> , 333, 135460	6.7	8
192	Silver Nanocubes Coated in Ceria: Core/Shell Size Effects on Light-Induced Charge Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1905-1912	9.5	6
191	Modular microreactor with integrated reflection element for online reaction monitoring using infrared spectroscopy. <i>Lab on A Chip</i> , <b>2020</b> , 20, 4166-4174	7.2	5
190	Increased hydrogen partial pressure suppresses and reverses hydrogen evolution during Pd catalysed electrolysis of CO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4459-4463	5.8	2
189	Photocatalytic Oxidation of Propane Using Hydrothermally Prepared Anatase-Brookite-Rutile TiO Samples. An In Situ DRIFTS Study. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
188	Electrochemically Induced pH Change: Time-Resolved Confocal Fluorescence Microscopy Measurements and Comparison with Numerical Model. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7042-7048	6.4	11
187	Preparation of Ti, Ti/TiC or Ti/TiN based hollow fibres with extremely low electrical resistivity.. <i>RSC Advances</i> , <b>2020</b> , 10, 31901-31908	3.7	4
186	Effect of partial pressure on product selectivity in Cu-catalyzed electrochemical reduction of CO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 5195-5202	5.8	4
185	Bimetallic Cu-based hollow fibre electrodes for CO <sub>2</sub> electroreduction. <i>Catalysis Today</i> , <b>2020</b> , 346, 34-39	5.3	15
184	Size-tunable TiO <sub>2</sub> nanoparticles in mesoporous silica: Size-dependent performance in selective photo-oxidation. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1200, 127113	3.4	4
183	Photocatalytic hydrogen production by photo-reforming of methanol with one-pot synthesized Pt-containing TiO <sub>2</sub> photocatalysts. <i>Catalysis Today</i> , <b>2020</b> , 356, 95-100	5.3	11
182	Industrial feasibility of anodic hydrogen peroxide production through photoelectrochemical water splitting: a techno-economic analysis. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3143-3156	5.8	13
181	Islanded ammonia power systems: Technology review & conceptual process design. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 114, 109339	16.2	76
180	Ag-Functionalized CuWO <sub>4</sub> /WO <sub>3</sub> nanocomposites for solar water splitting. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 2196-2203	3.6	16
179	Correlating the Short-Time Current Response of a Hydrogen Evolving Nickel Electrode to Bubble Growth. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, E280-E285	3.9	8

178	Integration of Molybdenum-Doped, Hydrogen-Annealed BiVO with Silicon Microwires for Photoelectrochemical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5034-5044	8.3	8
177	Electrochemical oxidation of H <sub>2</sub> S on polycrystalline Ni electrodes. <i>Journal of Applied Electrochemistry</i> , <b>2019</b> , 49, 929-936	2.6	2
176	Comparative Analysis of Photocatalytic and Electrochemical Degradation of 4-Ethylphenol in Saline Conditions. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8725-8735	10.3	21
175	Time-Dependent Photoluminescence of Nanostructured Anatase TiO <sub>2</sub> and the Role of Bulk and Surface Processes. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26653-26661	3.8	27
174	Electrochemical formation of Cr(III)-based films on Au electrodes. <i>Electrochimica Acta</i> , <b>2019</b> , 296, 1115-1621	7	8
173	In situ formed vanadium-oxide cathode coatings for selective hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 233-239	21.8	15
172	Towards sustainable chlorate production: The effect of permanganate addition on current efficiency. <i>Journal of Cleaner Production</i> , <b>2018</b> , 182, 529-537	10.3	21
171	Effect of Temperature and pH on Phase Transformations in Citric Acid Mediated Hydrothermal Growth of Tungsten Oxide. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 917-923	2.3	14
170	pH-Dependence in facet-selective photo-deposition of metals and metal oxides on semiconductor particles. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7500-7508	13	18
169	Cathodic Electrodeposition of Ni-Mo on Semiconducting NiFe O for Photoelectrochemical Hydrogen Evolution in Alkaline Media. <i>ChemSusChem</i> , <b>2018</b> , 11, 1374-1381	8.3	3
168	The Effect of Methanol on the Photodeposition of Pt Nanoparticles on Tungsten Oxide. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700250	3.1	14
167	Photocatalytic Activity of ZnV <sub>2</sub> O <sub>6</sub> /Reduced Graphene Oxide Nanocomposite: From Theory to Experiment. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H353-H359	3.9	24
166	Driving Surface Redox Reactions in Heterogeneous Photocatalysis: The Active State of Illuminated Semiconductor-Supported Nanoparticles during Overall Water-Splitting. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9154-9164	13.1	47
165	ZnO Nanowire Networks as Photoanode Model Systems for Photoelectrochemical Applications. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	17
164	Magnetically-extractable hybrid of magnetite, mesoporous silica and titania for the photo-degradation of organic compounds in water. <i>Applied Surface Science</i> , <b>2018</b> , 457, 121-133	6.7	6
163	Beyond Water Splitting: Efficiencies of Photo-Electrochemical Devices Producing Hydrogen and Valuable Oxidation Products. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1600035	5.9	38
162	Transient Behavior of Ni@NiO Functionalized SrTiO in Overall Water Splitting. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1610-1614	13.1	67
161	Stability of Ag@SiO <sub>2</sub> core-shell particles in conditions of photocatalytic overall water-splitting. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 309-314	12	12

160	Insight into the origin of the limited activity and stability of p-Cu <sub>2</sub> O films in photoelectrochemical proton reduction. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 259-267	6.7	17
159	Promoting Photocatalytic Overall Water Splitting by Controlled Magnesium Incorporation in SrTiO <sub>3</sub> Photocatalysts. <i>ChemSusChem</i> , <b>2017</b> , 10, 4510-4516	8.3	17
158	Modulating the External Facets of Functional Nanocrystals Enabled by Two-Dimensional Oxide Crystal Templates. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6858-6863	13.1	9
157	Characterization of opto-electrical enhancement of tandem photoelectrochemical cells by using photoconductive-AFM. <i>Nanotechnology</i> , <b>2017</b> , 28, 295401	3.4	2
156	High throughput screening of photocatalytic conversion of pharmaceutical contaminants in water. <i>Environmental Pollution</i> , <b>2017</b> , 220, 1199-1207	9.3	10
155	Room Temperature Oxidation of Ethanol to Acetaldehyde over Pt/WO <sub>3</sub> . <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600266	4.6	3
154	Palladium-gold catalyst for the electrochemical reduction of CO <sub>2</sub> to C <sub>1</sub> -C <sub>5</sub> hydrocarbons. <i>Chemical Communications</i> , <b>2016</b> , 52, 10229-32	5.8	99
153	Substrate Specificity in Photocatalytic Degradation of Mixtures of Organic Contaminants in Water. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1254-1262	13.1	54
152	Photoactive Area Dependent Electrochemical Characteristics of Photoelectrochemical Cells. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H105-H109	3.9	2
151	Three-dimensional porous hollow fibre copper electrodes for efficient and high-rate electrochemical carbon dioxide reduction. <i>Nature Communications</i> , <b>2016</b> , 7, 10748	17.4	231
150	Catalytic methyl mercaptan coupling to ethylene in chabazite: DFT study of the first C-C bond formation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 187, 195-203	21.8	11
149	Photocatalytic methanol assisted production of hydrogen with simultaneous degradation of methyl orange. <i>Applied Catalysis A: General</i> , <b>2016</b> , 518, 206-212	5.1	17
148	Spatioselective Electrochemical and Photoelectrochemical Functionalization of Silicon Microwires with Axial p/n Junctions. <i>Advanced Materials</i> , <b>2016</b> , 28, 1400-5	24	11
147	Methods, Mechanism, and Applications of Photodeposition in Photocatalysis: A Review. <i>Chemical Reviews</i> , <b>2016</b> , 116, 14587-14619	68.1	501
146	The effect of Rh <sup>3+</sup> dopant in SrTiO <sub>3</sub> on the active oxidation state of co-catalytic Pt nanoparticles in overall water splitting. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7793-7799	5.5	13
145	How Pt nanoparticles affect TiO <sub>2</sub> -induced gas-phase photocatalytic oxidation reactions. <i>Journal of Catalysis</i> , <b>2015</b> , 324, 119-126	7.3	25
144	Ti <sup>3+</sup> -containing titania: Synthesis tactics and photocatalytic performance. <i>Catalysis Today</i> , <b>2015</b> , 246, 60-66	5.3	37
143	Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin. <i>Nature Communications</i> , <b>2015</b> , 6, 8177	17.4	357

142	Controlled Doping Methods for Radial p/n Junctions in Silicon. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401-1415	7.45	20
141	Manipulating the Hydrocarbon Selectivity of Copper Nanoparticles in CO <sub>2</sub> Electroreduction by Process Conditions. <i>ChemElectroChem</i> , <b>2015</b> , 2, 354-358	4.3	293
140	Photocatalytic decomposition of cortisone acetate in aqueous solution. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 282, 208-15	12.8	24
139	Selective modulation of charge-carrier transport of a photoanode in a photoelectrochemical cell by a graphitized fullerene interfacial layer. <i>ChemSusChem</i> , <b>2015</b> , 8, 172-6	8.3	5
138	The effect of active sites nature on the photo-catalytic performance of Cr-TUD-1 in the oxidation of C <sub>1-3</sub> hydrocarbons. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 413-420	21.8	27
137	E. coli inactivation by visible light irradiation using a Fe <sup>III</sup> /TiO <sub>2</sub> photocatalyst: Statistical analysis and optimization of operating parameters. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 168-169, 441-447	21.8	37
136	The influence of water vapour on the photocatalytic oxidation of cyclohexane in an internally illuminated monolith reactor. <i>Applied Catalysis A: General</i> , <b>2014</b> , 470, 63-71	5.1	11
135	Electrochemical synthesis of coaxial TiO <sub>2</sub> /Ag nanowires and their application in photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2648-2656	13	34
134	High throughput analysis of photocatalytic water purification. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7612-7	7.8	10
133	Understanding promotion of photocatalytic activity of TiO <sub>2</sub> by Au nanoparticles. <i>Journal of Catalysis</i> , <b>2014</b> , 319, 194-199	7.3	37
132	Electrochemical CO <sub>2</sub> reduction on Cu <sub>2</sub> O-derived copper nanoparticles: controlling the catalytic selectivity of hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12194-201	3.6	382
131	Effects of bismuth addition and photo-deposition of platinum on (surface) composition, morphology and visible light photocatalytic activity of sol-gel derived TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 154-155, 153-160	21.8	14
130	Synthesis of photocatalytic TiO <sub>2</sub> nano-coatings by supersonic cluster beam deposition. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S467-S471	5.7	17
129	Strategies to design efficient silica-supported photocatalysts for reduction of CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 594-7	16.4	54
128	Sorption-Determined Deposition of Platinum on Well-Defined Platelike WO <sub>3</sub> . <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12684-12687	3.6	6
127	Sorption-determined deposition of platinum on well-defined platelike WO <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12476-9	16.4	17
126	A novel TiO <sub>2</sub> composite for photocatalytic wastewater treatment. <i>Journal of Catalysis</i> , <b>2014</b> , 310, 75-83	7.3	54
125	Status and perspectives of CO <sub>2</sub> conversion into fuels and chemicals by catalytic, photocatalytic and electrocatalytic processes. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3112	35.4	1184

124	TUD-1-Encapsulated HY Zeolite: A New Hierarchical Microporous/Mesoporous Composite with Extraordinary Performance in Benzylation Reactions. <i>ChemCatChem</i> , <b>2013</b> , 5, 3156-3163	5.2	9
123	Selective hydrothermal method to create patterned and photoelectrochemically effective Pt/WO <sub>3</sub> interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 13050-4	9.5	8
122	Effects of Support, Particle Size, and Process Parameters on Co <sub>3</sub> O <sub>4</sub> Catalyzed H <sub>2</sub> O Oxidation Mediated by the [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> Persulfate System. <i>ChemCatChem</i> , <b>2013</b> , 5, 550-556	5.2	17
121	Disposable attenuated total reflection-infrared crystals from silicon wafer: a versatile approach to surface infrared spectroscopy. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 33-8	7.8	30
120	Investigation of the Deactivation Phenomena Occurring in the Cyclohexane Photocatalytic Oxidative Dehydrogenation on MoO <sub>x</sub> /TiO <sub>2</sub> through Gas Phase and in situ DRIFTS Analyses. <i>Catalysts</i> , <b>2013</b> , 3, 978-997	4	10
119	Surface Ti <sup>3+</sup> -Containing (blue) Titania: A Unique Photocatalyst with High Activity and Selectivity in Visible Light-Stimulated Selective Oxidation. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2641-2647	13.1	102
118	Synthesis, characterization and catalytic performance of Mo-TUD-1 catalysts in epoxidation of cyclohexene. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 1894	5.5	36
117	Attenuated total reflection-infrared nanofluidic chip with 71 nL detection volume for in situ spectroscopic analysis of chemical reaction intermediates. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3132-7	7.8	22
116	On the pathway of photoexcited electrons: probing photon-to-electron and photon-to-phonon conversions in silicon by ATR-IR. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10882-5	3.6	11
115	Functioning devices for solar to fuel conversion. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2012</b> , 51, 137-149	3.7	18
114	Photocatalysis: Toward Solar Fuels and Chemicals <b>2012</b> , 491-512		
113	Photo-catalytic oxidation of cyclohexane over TiO <sub>2</sub> : a novel interpretation of temperature dependent performance. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1345-55	3.6	14
112	Photocatalytic Oxidation of Cyclohexane over TiO <sub>2</sub> : Evidence for a Mars-van Krevelen Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1330-1338	3.8	42
111	Micromolding of solvent resistant microfluidic devices. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2035-8	7.2	25
110	Combined ATR-FTIR and DFT Study of Cyclohexanone Adsorption on Hydrated TiO <sub>2</sub> Anatase Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 14164-14172	3.8	20
109	Porous Photocatalytic Membrane Microreactor (P2M2): A new reactor concept for photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 225, 36-41	4.7	59
108	The effect of water on the performance of TiO <sub>2</sub> in photocatalytic selective alkane oxidation. <i>Journal of Catalysis</i> , <b>2011</b> , 277, 129-133	7.3	27
107	Mechanistic study of hydrocarbon formation in photocatalytic CO <sub>2</sub> reduction over Ti-SBA-15. <i>Journal of Catalysis</i> , <b>2011</b> , 284, 1-8	7.3	107

106	Monitoring the catalytic synthesis of glycerol carbonate by real-time attenuated total reflection FTIR spectroscopy. <i>Applied Catalysis A: General</i> , <b>2011</b> , 409-410, 106-112	5.1	32
105	Efficient NO adsorption and release at Fe <sup>3+</sup> sites in Fe/TiO <sub>2</sub> nanoparticles. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2140	35.4	22
104	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 2211-2217	3.8	99
103	The effect of Au on TiO <sub>2</sub> catalyzed selective photocatalytic oxidation of cyclohexane. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 217, 326-332	4.7	29
102	TUD-1: synthesis and application of a versatile catalyst, carrier, material. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 642-658		82
101	Toward a Physically Sound Structure-Activity Relationship of TiO <sub>2</sub> -Based Photocatalysts. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 327-332	3.8	69
100	Artificial photosynthesis over crystalline TiO <sub>2</sub> -based catalysts: fact or fiction?. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 8398-406	16.4	303
99	Cyclohexane selective photocatalytic oxidation by anatase TiO <sub>2</sub> : influence of particle size and crystallinity. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2744-50	3.6	43
98	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?. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 358-64	3.6	32
97	Reactors Using Alternative Energy Forms for Green Synthetic Routes and New Functional Products <b>2010</b> , 289-308		1
96	Mechanism of Laccase-TEMPO-Catalyzed Oxidation of Benzyl Alcohol. <i>ChemCatChem</i> , <b>2010</b> , 2, 827-833	5.2	63
95	Improved performance of TiO <sub>2</sub> in the selective photo-catalytic oxidation of cyclohexane by increasing the rate of desorption through surface silylation. <i>Journal of Catalysis</i> , <b>2010</b> , 273, 116-124	7.3	34
94	Photocatalytic oxidation of cyclohexane by titanium dioxide: Catalyst deactivation and regeneration. <i>Journal of Catalysis</i> , <b>2010</b> , 273, 199-210	7.3	47
93	CO <sub>2</sub> photoreduction using NiO/InTaO <sub>4</sub> in optical-fiber reactor for renewable energy. <i>Applied Catalysis A: General</i> , <b>2010</b> , 380, 172-177	5.1	119
92	Product desorption limitations in selective photocatalytic oxidation. <i>Catalysis Today</i> , <b>2010</b> , 155, 302-310	5.3	17
91	FAPO and Fe-TUD-1: Promising catalysts for N <sub>2</sub> O mediated selective oxidation of propane?. <i>Journal of Catalysis</i> , <b>2009</b> , 262, 1-8	7.3	19
90	Acrylate and propoxy-groups: Contributors to deactivation of Au/TiO <sub>2</sub> in the epoxidation of propene. <i>Journal of Catalysis</i> , <b>2009</b> , 266, 286-290	7.3	41
89	How Gold Deposition Affects Anatase Performance in the Photo-catalytic Oxidation of Cyclohexane. <i>Catalysis Letters</i> , <b>2009</b> , 129, 12-19	2.8	60



88	Identification of the role of surface acidity in the deactivation of TiO <sub>2</sub> in the selective photo-oxidation of cyclohexane. <i>Catalysis Today</i> , <b>2009</b> , 143, 326-333	5.3	31
87	An internally illuminated monolith reactor: Pros and cons relative to a slurry reactor. <i>Catalysis Today</i> , <b>2009</b> , 147, S324-S329	5.3	28
86	Experimental evidence for electron localization on Au upon photo-activation of Au/anatase catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2708-14	3.6	41
85	The effect of surface OH-population on the photocatalytic activity of rare earth-doped P25-TiO <sub>2</sub> in methylene blue degradation. <i>Journal of Catalysis</i> , <b>2008</b> , 260, 75-80	7.3	156
84	Efficient catalytic epoxidation of olefins with silylated Ti-TUD-1 catalysts. <i>Journal of Catalysis</i> , <b>2008</b> , 260, 288-294	7.3	32
83	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1552-1561	3.8	82
82	Cyclohexene photo-oxidation over vanadia catalyst analyzed by time resolved ATR-FT-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3131-7	3.6	24
81	On the Wavelength-Dependent Performance of Cr-Doped Silica in Selective Photo-Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 5471-5475	3.8	14
80	Enabling Electrocatalytic Fischer-Tropsch Synthesis from Carbon Dioxide Over Copper-based Electrodes. <i>Catalysis Letters</i> , <b>2008</b> , 123, 186-192	2.8	60
79	Isorecticular MOFs as efficient photocatalysts with tunable band gap: an operando FTIR study of the photoinduced oxidation of propylene. <i>ChemSusChem</i> , <b>2008</b> , 1, 981-3	8.3	216
78	Effect of steaming of iron containing AlPO-5 on the structure and activity in N <sub>2</sub> O decomposition. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 112, 193-201	5.3	22
77	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. <i>Applied Catalysis A: General</i> , <b>2008</b> , 334, 119-128	5.1	112
76	Evaluation of mesoporous TCPSi, MCM-41, SBA-15, and TUD-1 materials as API carriers for oral drug delivery. <i>Drug Delivery</i> , <b>2007</b> , 14, 337-47	7	152
75	On the mechanism of model diesel soot-O <sub>2</sub> reaction catalysed by Pt-containing La <sup>3+</sup> -doped CeO <sub>2</sub> A TAP study with isotopic O <sub>2</sub> . <i>Catalysis Today</i> , <b>2007</b> , 121, 237-245	5.3	76
74	Bottom-mounted ATR probes: Pitfalls that arise from gravitational effects. <i>Catalysis Today</i> , <b>2007</b> , 126, 184-190	5.3	7
73	A review of intensification of photocatalytic processes. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2007</b> , 46, 781-789	3.7	332
72	Electrochemical generation of hydrogen peroxide using surface area-enhanced Ti-mesh electrodes. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 6304-6309	6.7	34
71	Mesoporous silica material TUD-1 as a drug delivery system. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 331, 133-8	6.5	177

70	Structure and performance in propane ODH of Vanadia incorporated in (Ti-, Zr-)TUD-1. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 170, 1190-1196	1.8	
69	Applicability of fiber-optic-based Raman probes for on-line reaction monitoring of high-pressure catalytic hydrogenation reactions. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 470-8	3.1	6
68	Selective photo(catalytic)-oxidation of cyclohexane: Effect of wavelength and TiO <sub>2</sub> structure on product yields. <i>Journal of Catalysis</i> , <b>2006</b> , 238, 342-352	7.3	138
67	DRIFTS study of the water-gas shift reaction over Au/Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2006</b> , 243, 171-182	7.3	97
66	Development of TiO <sub>2</sub> /Ti wire-mesh honeycomb for catalytic combustion of ethyl acetate in air. <i>Applied Catalysis A: General</i> , <b>2006</b> , 313, 86-93	5.1	19
65	Chromium-incorporated TUD-1 as a new visible light-sensitive photo-catalyst for selective oxidation of propane. <i>Catalysis Today</i> , <b>2006</b> , 117, 337-342	5.3	25
64	Reaction Kinetics and Intermediate Determination of Solid Acid Catalysed Liquid-phase Hydrolysis Reactions: A Real-time in situ ATR FT-IR Study. <i>Catalysis Letters</i> , <b>2006</b> , 109, 199-206	2.8	9
63	Catalytic Characterization of Mesoporous Ti/Silica Hollow Spheres. <i>Catalysis Letters</i> , <b>2006</b> , 109, 207-210	2.8	15
62	TiO <sub>2</sub> nanoparticles in mesoporous TUD-1: synthesis, characterization and photocatalytic performance in propane oxidation. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 620-8	4.8	48
61	Bi-functionality of Fe-TUD-1 mesoporous material in Friedel-Crafts' type reactions. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 1509-1516	1.8	2
60	Highly active and stable ion-exchanged Fe/berrierite catalyst for N <sub>2</sub> O decomposition under nitric acid tail gas conditions. <i>Catalysis Communications</i> , <b>2005</b> , 6, 301-305	3.2	46
59	Reactivity of generated oxygen species from nitrous oxide over [Fe,Al]MFI catalysts for the direct oxidation of benzene to phenol. <i>Catalysis Today</i> , <b>2005</b> , 110, 221-227	5.3	21
58	Following the evolution of iron from framework to extra-framework positions in isomorphously substituted [Fe,Al]MFI with <sup>57</sup> Fe Mössbauer spectroscopy. <i>Journal of Catalysis</i> , <b>2005</b> , 231, 56-66	7.3	33
57	Synthesis, characterization, and unique catalytic performance of the mesoporous material Fe-TUD-1 in Friedel-Crafts benzylation of benzene. <i>Catalysis Today</i> , <b>2005</b> , 100, 255-260	5.3	75
56	Fe, Co and Cu-incorporated TUD-1: Synthesis, characterization and catalytic performance in N <sub>2</sub> O decomposition and cyclohexane oxidation. <i>Catalysis Today</i> , <b>2005</b> , 110, 264-271	5.3	48
55	Synergy between metals in bimetallic zeolite supported catalyst for NO-promoted N <sub>2</sub> O decomposition. <i>Catalysis Letters</i> , <b>2005</b> , 99, 41-44	2.8	31
54	A synergistic effect in Iron-Ruthenium-FER catalyst for N <sub>2</sub> O decomposition in the presence of NO. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 158, 1915-1920	1.8	1
53	PREPARATION OF SUPPORTED METAL CATALYSTS. <i>Catalytic Science Series</i> , <b>2005</b> , 1-32	0.4	9

52	CeO <sub>2</sub> catalysed soot oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 51, 9-19	21.8	192
51	N <sub>2</sub> O Decomposition over Liquid Ion-Exchanged Fe-BEA Catalysts: Correlation Between Activity and the IR Intensity of Adsorbed NO at 1874 cm <sup>-1</sup> . <i>Catalysis Letters</i> , <b>2004</b> , 93, 113-120	2.8	27
50	Real-time in situ ATR-FTIR analysis of the liquid phase hydrogenation of $\epsilon$ -butyrolactone over Cu-ZnO catalysts: A mechanistic study by varying lactone ring size. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 5479-5485	4.4	59
49	Operando ATR-FTIR analysis of liquid-phase catalytic reactions: can heterogeneous catalysts be observed?. <i>Vibrational Spectroscopy</i> , <b>2004</b> , 34, 109-121	2.1	44
48	Systematic variation of <sup>57</sup> Fe and Al content in isomorphously substituted <sup>57</sup> FeZSM-5 zeolites: preparation and characterization. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 75, 237-246	5.3	16
47	Impact of Pressure Variations on Coal Devolatilization Products. 2. Detailed Product Distributions from 1.0 MPa. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 520-530	4.1	10
46	Elucidation of the Surprising Role of NO in N <sub>2</sub> O Decomposition over FeZSM-5. <i>Kinetics and Catalysis</i> , <b>2003</b> , 44, 639-647	1.5	14
45	Dispersion and Distribution of Ruthenium on Carbon-Coated Ceramic Monolithic Catalysts Prepared by Impregnation. <i>Catalysis Letters</i> , <b>2003</b> , 90, 181-186	2.8	11
44	Selective Catalytic Reduction of NO with NH <sub>3</sub> over Fe-ZSM-5 Catalysts Prepared by Sublimation of FeCl <sub>3</sub> at Different Temperatures. <i>Catalysis Letters</i> , <b>2003</b> , 86, 121-132	2.8	66
43	On the activation of Pt/Al <sub>2</sub> O <sub>3</sub> catalysts in HC-SCR by sintering: determination of redox-active sites using Multitrack. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 46, 687-702	21.8	25
42	Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N <sub>2</sub> O decomposition. <i>Journal of Catalysis</i> , <b>2003</b> , 214, 33-45	7.3	140
41	Catalytic synthesis of methanethiol from hydrogen sulfide and carbon monoxide over vanadium-based catalysts. <i>Catalysis Today</i> , <b>2003</b> , 78, 327-337	5.3	31
40	High-throughput experimentation in catalyst testing and in kinetic studies for heterogeneous catalysis. <i>Catalysis Today</i> , <b>2003</b> , 81, 457-471	5.3	33
39	MultiTRACK and operando Raman-GC study of oxidative dehydrogenation of propane over alumina-supported vanadium oxide catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 4378-4383	3.6	30
38	Thermal decomposition of layered Co-Al hydrotalcite An in situ study <b>2003</b> , 631-638		
37	Highly active SO <sub>2</sub> -resistant ex-framework FeMFI catalysts for direct N <sub>2</sub> O decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2002</b> , 35, 227-234	21.8	81
36	Ex-framework FeZSM-5 for control of N <sub>2</sub> O in tail-gases. <i>Catalysis Today</i> , <b>2002</b> , 76, 55-74	5.3	83
35	Electrochemical characterization of iron sites in ex-framework FeZSM-5. <i>Journal of Electroanalytical Chemistry</i> , <b>2002</b> , 519, 72-84	4.1	22

34	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. <i>Journal of Catalysis</i> , <b>2002</b> , 207, 113-126	7.3	148
33	NO-Assisted N <sub>2</sub> O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. <i>Journal of Catalysis</i> , <b>2002</b> , 208, 211-223	7.3	121
32	Characterization of Iron Species in Ex-Framework FeZSM-5 by Electrochemical Methods. <i>Catalysis Letters</i> , <b>2002</b> , 78, 303-312	2.8	10
31	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. <i>Catalysis Letters</i> , <b>2002</b> , 80, 129-138	2.8	73
30	Direct N <sub>2</sub> O decomposition over ex-framework FeMFI catalysts. Role of extra-framework species. <i>Catalysis Communications</i> , <b>2002</b> , 3, 19-23	3.2	27
29	Dual-Bed Catalytic System for Removal of NO <sub>x</sub> -N <sub>2</sub> O in Lean-Burn Engine Exhausts <b>2002</b> , 229-243		
28	Transient kinetics of the propene oxidation over silver catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 365-372	1.8	2
27	30-O-02-Characterization and performance of ex-framework FeZSM-5 in catalytic N <sub>2</sub> O decomposition. <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 172	1.8	3
26	Transient kinetics of 15NO-decomposition on Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 357-364	1.8	1
25	Effect of preparation procedures on the activity of supported palladium/lanthanum methanol decomposition catalysts. <i>Catalysis Today</i> , <b>2001</b> , 65, 69-75	5.3	15
24	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of Co/Al and Ni/Al hydrotalcites. <i>Vibrational Spectroscopy</i> , <b>2001</b> , 27, 75-88	2.1	128
23	Stability and Selectivity of Au/TiO <sub>2</sub> and Au/TiO <sub>2</sub> /SiO <sub>2</sub> Catalysts in Propene Epoxidation: An in Situ FT-IR Study. <i>Journal of Catalysis</i> , <b>2001</b> , 201, 128-137	7.3	200
22	NO-Assisted N <sub>2</sub> O Decomposition over ex-Framework FeZSM-5: Mechanistic Aspects. <i>Catalysis Letters</i> , <b>2001</b> , 77, 7-13	2.8	56
21	On the stability of the thermally decomposed Co-Al hydrotalcite against retrotopotactic transformation. <i>Materials Research Bulletin</i> , <b>2001</b> , 36, 1767-1775	5.1	50
20	Characterization and performance of Pt-USY in the SCR of NO <sub>x</sub> with hydrocarbons under lean-burn conditions. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 29, 285-298	21.8	41
19	In situ investigation of the thermal decomposition of Co/Al hydrotalcite in different atmospheres. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 821-830		181
18	Superior performance of ex-framework FeZSM-5 in direct N <sub>2</sub> O decomposition in tail-gases from nitric acid plants. <i>Chemical Communications</i> , <b>2001</b> , 693-694	5.8	102
17	A spectroscopic study of the effect of the trivalent cation on the thermal decomposition behaviour of Co-based hydrotalcites. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2529-2536		30

16	Comments on Infrared emission spectroscopic studies of the thermal transformation of Mg-, Ni- and Co-hydroxalcalite catalysts [Appl. Catal. A: Gen. 184 (1999) 617-1]. <i>Applied Catalysis A: General</i> , <b>2000</b> , 204, 265-267	5.1	9
15	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. <i>Catalysis Today</i> , <b>2000</b> , 60, 93-109	5.3	159
14	Highly Active and Stable Pt-USY in the Low-Temperature de-NOx HC-SCR. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2000</b> , 71, 33-40		
13	An Experimental Facility for the Study of Coal Pyrolysis at 10 Atmospheres. <i>Energy &amp; Fuels</i> , <b>2000</b> , 14, 692-700	4.1	12
12	A DRIFTS study of the interaction of alkali metal oxides with carbonaceous surfaces. <i>Carbon</i> , <b>1999</b> , 37, 401-410	10.4	22
11	The formation of carbon surface oxygen complexes by oxygen and ozone. The effect of transition metal oxides. <i>Carbon</i> , <b>1998</b> , 36, 1269-1276	10.4	92
10	Transition Metal Oxide Catalyzed Carbon Black Oxidation: A Study with $^{18}O_2$ . <i>Journal of Catalysis</i> , <b>1998</b> , 179, 258-266	7.3	83
9	The effect of NOx and CO on the rate of transition metal oxide catalyzed carbon black oxidation: An exploratory study. <i>Applied Catalysis B: Environmental</i> , <b>1998</b> , 17, 205-220	21.8	42
8	Catalytic oxidation of model soot by chlorine based catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1998</b> , 116, 645-654	1.8	7
7	Feasibility study towards a Cu/K/Mo/(Cl) soot oxidation catalyst for application in diesel exhaust gases. <i>Applied Catalysis B: Environmental</i> , <b>1997</b> , 11, 365-382	21.8	42
6	Catalytic oxidation of model soot by metal chlorides. <i>Applied Catalysis B: Environmental</i> , <b>1997</b> , 12, 33-47	21.8	89
5	Decomposition of nitrous oxide over ZSM-5 catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1996</b> , 641-650		30
4	Soot oxidation catalyzed by a Cu/K/Mo/Cl catalyst: evaluation of the chemistry and performance of the catalyst. <i>Applied Catalysis B: Environmental</i> , <b>1995</b> , 6, 339-352	21.8	117
3	Mechanistic study of decomposition of cyclohexyl hydroperoxide catalysed by manganese(III) tetraarylporphyrins. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , <b>1993</b> , 112, 497-502		7
2	Effect of electrolyte and electrode configuration on Cu-catalyzed nitric oxide reduction to ammonia. <i>ChemElectroChem</i> ,	4.3	2
1	Optimizing the Ink Formulation for Preparation of Cu-Based Gas Diffusion Electrodes Yielding Ethylene in Electroreduction of CO <sub>2</sub> . <i>ACS ES&amp;T Engineering</i> ,		2