Eric Gaigneaux

List of Publications by Year
in descending order

243	7,074	57758	98798
papers	citations	44 h-index	67 g-index

251	251	251	6905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring, Tuning, and Exploiting the Basicity of Hydrotalcites for Applications in Heterogeneous Catalysis. Chemistry - A European Journal, 2009, 15, 3920-3935.	3.3	450
2	Systematic investigation of supported transition metal oxide based formulations for the catalytic oxidative elimination of (chloro)-aromatics. Applied Catalysis B: Environmental, 2006, 66, 1-9.	20.2	140
3	Tuning the Acid/Metal Balance of Carbon Nanofiberâ€Supported Nickel Catalysts for Hydrolytic Hydrogenation of Cellulose. ChemSusChem, 2012, 5, 1549-1558.	6.8	131
4	Plasma-assisted catalysis for volatile organic compounds abatement. Applied Catalysis B: Environmental, 2005, 61, 12-20.	20.2	126
5	Systematic investigation of supported transition metal oxide based formulations for the catalytic oxidative elimination of (chloro)-aromatics. Applied Catalysis B: Environmental, 2006, 66, 10-22.	20.2	112
6	Glycerol acetylation catalysed by ion exchange resins. Catalysis Today, 2012, 195, 14-21.	4.4	110
7	Oneâ€Pot Aerosol Route to MoO₃â€SiO₂â€Al₂O₃ Catalysts with Ordered Super Microporosity and High Olefin Metathesis Activity. Angewandte Chemie - International Edition, 2012, 51, 2129-2131.	13.8	101
8	Positive effect of NO on the performances of VO/TiO-based catalysts in the total oxidation abatement of chlorobenzene. Journal of Catalysis, 2005, 230, 493-498.	6.2	98
9	Cu-modified cryptomelane oxide as active catalyst for CO oxidation reactions. Applied Catalysis B: Environmental, 2012, 123-124, 27-35.	20.2	95
10	Determination of the Size of Supported Pd Nanoparticles by X-ray Photoelectron Spectroscopy. Comparison with X-ray Diffraction, Transmission Electron Microscopy, and H₂ Chemisorption Methods. Journal of Physical Chemistry C, 2010, 114, 16677-16684.	3.1	93
11	Flame-made MoO3/SiO2â€“Al2O3 metathesis catalysts with highly dispersed and highly active molybdate species. Journal of Catalysis, 2011, 277, 154-163.	6.2	85
12	On the impact of the choice of model VOC in the evaluation of V-based catalysts for the total oxidation of dioxins: Furan vs. chlorobenzene. Applied Catalysis B: Environmental, 2007, 74, 223-232.	20.2	80
13	Recent Advances in Heterogeneous Catalysis for Ammonia Synthesis. ChemCatChem, 2020, 12, 5838-5857.	3.7	79
14	Understanding the activation mechanism induced by NOx on the performances of VOx/TiO2 based catalysts in the total oxidation of chlorinated VOCs. Applied Catalysis B: Environmental, 2007, 70, 360-369.	20.2	78
15	Formation of ZSMâ€22 Zeolite Catalytic Particles by Fusion of Elementary Nanorods. Chemistry - A European Journal, 2007, 13, 10070-10077.	3.3	77
16	Extent of the participation of lattice oxygen from Î³-MnO2 in VOCs total oxidation: Influence of the VOCs nature. Catalysis Today, 2006, 117, 350-355.	4.4	74
17	Glycerol acetylation on sulphated zirconia in mild conditions. Catalysis Today, 2011, 167, 56-63.	4.4	74
18	Elaboration and characterization of sulfated and unsulfated V2O5/TiO2 nanotubes catalysts for chlorobenzene total oxidation. Applied Catalysis B: Environmental, 2014, 147, 58-64.	20.2	74

#	Article	IF	Citations
19	One-step non-hydrolytic solâ€“gel preparation of efficient V2O5-TiO2 catalysts for VOC total oxidation. Applied Catalysis B: Environmental, 2010, 94, 38-45.	20.2	72
20	The active role of CO2 at low temperature in oxidation processes: the case of the oxidative dehydrogenation of propane on NiMoO4 catalysts. Applied Catalysis A: General, 2003, 242, 187-203.	4.3	70
21	Design of SiO₂â˜Al₂O₃â˜MoO₃ Metathesis Catalysts by Nonhydrolytic Solâ˜Gel. Chemistry of Materials, 2009, 21, 2817-2824.	6.7	70
22	Preparation of MoO3/SiO2â€“Al2O3 metathesis catalysts via wet impregnation with different Mo precursors. Journal of Molecular Catalysis A, 2011, 340, 65-76.	4.8	70
23	Total oxidation of benzene and chlorobenzene with MoO3- and WO3-promoted V2O5/TiO2 catalysts prepared by a nonhydrolytic solâ€“gel route. Catalysis Today, 2010, 157, 125-130.	4.4	67
24	Non-thermal plasma synthesis of sea-urchin like Î±-FeOOH for the catalytic oxidation of Orange II in aqueous solution. Applied Catalysis B: Environmental, 2015, 176-177, 99-106.	20.2	65
25	Operando resonance Raman spectroscopic characterisation of the oxidation state of palladium in Pd/Î³-Al2O3catalysts during the combustion of methane. Physical Chemistry Chemical Physics, 2003, 5, 4394-4401.	2.8	64
26	Catalysts for chlorinated VOCs abatement: Multiple effects of water on the activity of VOx based catalysts for the combustion of chlorobenzene. Catalysis Today, 2006, 112, 165-168.	4.4	64
27	Revisiting the Behaviour of Vanadia-Based Catalysts in the Abatement of (Chloro)-Aromatic Pollutants: Towards an Integrated Understanding. Topics in Catalysis, 2009, 52, 501-516.	2.8	62
28	Study of mesoporous CdS-quantum-dot-sensitized TiO₂ films by using X-ray photoelectron spectroscopy and AFM. Beilstein Journal of Nanotechnology, 2014, 5, 68-76.	2.8	61
29	Calibration of the Xâ€Ray Photoelectron Spectroscopy Binding Energy Scale for the Characterization of Heterogeneous Catalysts: Is Everything Really under Control?. ChemPhysChem, 2013, 14, 3618-3626.	2.1	60
30	Immobilizing heteropolyacids on zirconia-modified silica as catalysts for oleochemistry transesterification and esterification reactions. Journal of Catalysis, 2014, 320, 1-8.	6.2	60
31	Further on the mechanism of the synergy between MoO3 and Î±-Sb2O4 in the selective oxidation of isobutene to methacrolein: Reconstuction of MoO3 via spillover oxygen. Catalysis Today, 1996, 32, 37-46.	4.4	56
32	Elucidation of deactivation or resistance mechanisms of CrO_x, VO_x and MnO_x supported phases in the total oxidation of chlorobenzene via ToFâ€SIMS and XPS analyses. Surface and Interface Analysis, 2008, 40, 231-236.	1.8	56
33	Nanostructured Pd/C catalysts prepared by grafting of model carboxylate complexes onto functionalized carbon. Journal of Catalysis, 2006, 243, 239-251.	6.2	53
34	Olefin metathesis with mesoporous rheniumâ€“siliciumâ€“aluminum mixed oxides obtained via a one-step non-hydrolytic solâ€“gel route. Journal of Catalysis, 2013, 301, 233-241.	6.2	53
35	Catalytic combustion of toluene over cluster-derived gold/iron catalysts. Applied Catalysis A: General, 2010, 372, 138-146.	4.3	52
36	Hollow zeolite microspheres as a nest for enzymes: a new route to hybrid heterogeneous catalysts. Chemical Science, 2020, 11, 954-961.	7.4	52

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37	Adsorption capacity of methylene blue, an organic pollutant, by montmorillonite clay. Desalination and Water Treatment, 2014, 52, 2654-2661.	1.0	51
38	Aerosol Route to TiO₂â€“SiO₂Catalysts with Tailored Pore Architecture and High Epoxidation Activity. Chemistry of Materials, 2019, 31, 1610-1619.	6.7	50
39	Photocatalytic degradation of Rhodamine 6G on mesoporous titania films: Combined effect of texture and dye aggregation forms. Applied Catalysis B: Environmental, 2012, 115-116, 276-284.	20.2	49
40	Surface Modification of Smectite Clay Induced by Non-thermal Gliding Arc Plasma at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2013, 33, 707-723.	2.4	48
41	Highly Efficient Low-Temperature N-Doped TiO2 Catalysts for Visible Light Photocatalytic Applications. Materials, 2018, 11, 584.	2.9	48
42	Total oxidation of propane with a nano-RuO2/TiO2 catalyst. Applied Catalysis A: General, 2014, 481, 11-18.	4.3	47
43	Ag/SiO2, Cu/SiO2 and Pd/SiO2 cogelled xerogel catalysts for benzene combustion: Relationships between operating synthesis variables and catalytic activity. Catalysis Communications, 2007, 8, 1244-1248.	3.3	46
44	Catalysts based on pillared clays for the oxidation of chlorobenzene. Catalysis Today, 2015, 246, 15-27.	4.4	46
45	Genesis of active and inactive species during the preparation of MoO3/SiO2â€“Al2O3 metathesis catalysts via wet impregnation. Catalysis Today, 2011, 169, 60-68.	4.4	45
46	Opposite effect of Al on the performances of MoO3/SiO2-Al2O3 catalysts in the metathesis and in the partial oxidation of propene. Applied Catalysis A: General, 2011, 391, 78-85.	4.3	44
47	Performance of platinum and gold catalysts supported on ceriaâ€“zirconia mixed oxide in the oxidation of chlorobenzene. Catalysis Today, 2015, 253, 172-177.	4.4	44
48	Hydrodeoxygenation of guaiacol using NiMo and CoMo catalysts supported on alumina modified with potassium. Catalysis Today, 2018, 302, 125-135.	4.4	44
49	Evidence for the participation of lattice nitrogen from vanadium aluminum oxynitrides in propane ammoxidation. Journal of Catalysis, 2005, 232, 152-160.	6.2	42
50	Skeletal isomerization of octadecane on bifunctional ZSM-23 zeolite catalyst. Catalysis Letters, 2005, 100, 235-242.	2.6	42
51	Characterization of alumina- and niobia-supported gold catalysts used for oxidation of glycerol. Applied Catalysis A: General, 2010, 384, 70-77.	4.3	42
52	Thermal Spreading As an Alternative for the Wet Impregnation Method: Advantages and Downsides in the Preparation of MoO3/SiO2â˜Al2O3 Metathesis Catalysts. Journal of Physical Chemistry C, 2010, 114, 18664-18673.	3.1	42
53	Solâ€“gel derived V2O5â€“TiO2 mesoporous materials as catalysts for the total oxidation of chlorobenzene. Catalysis Communications, 2011, 15, 1-5.	3.3	42
54	Evaluation of PCDD/F oxidation catalysts: Confronting studies on model molecules with tests on PCDD/F-containing gas stream. Chemosphere, 2011, 82, 1337-1342.	8.2	42

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55	A non-hydrolytic solâ€“gel route to highly active MoO3â€“SiO2â€“Al2O3 metathesis catalysts. Catalysis Science and Technology, 2012, 2, 1157.	4.1	42
56	Plasma-Assisted Synthesis of TiO2 Nanorods by Gliding Arc Discharge Processing at Atmospheric Pressure for Photocatalytic Applications. Plasma Chemistry and Plasma Processing, 2013, 33, 725-735.	2.4	41
57	Toluene oxidation in a plasma-catalytic system. Journal of Applied Physics, 2006, 99, 123301.	2.5	40
58	Investigation of the preparation and activity of gold catalysts in the total oxidation of n-hexane. Applied Catalysis B: Environmental, 2007, 70, 406-416.	20.2	40
59	Abatement of model molecules for dioxin total oxidation on V2O5â€“WO3/TiO2 catalysts: The case of substituted oxygen-containing VOC. Journal of Molecular Catalysis A, 2008, 289, 38-43.	4.8	40
60	Preparation and characterization of HMS supported 11-molybdo-vanado-phosphoric acid for selective oxidation of propylene. Microporous and Mesoporous Materials, 2010, 130, 103-114.	4.4	40
61	Plasma-induced redox reactions synthesis of nanosized Î±-, Î³- and Î´-MnO2 catalysts for dye degradation. Applied Catalysis B: Environmental, 2020, 260, 118159.	20.2	40
62	Flame-made vs. wet-impregnated vanadia/titania in the total oxidation of chlorobenzene: Possible role of VOx species. Catalysis Today, 2010, 157, 198-203.	4.4	39
63	New Nb and Taâ€“FAU zeolitesâ€”Direct synthesis, characterisation and surface properties. Catalysis Today, 2010, 158, 170-177.	4.4	39
64	Tailored refractive index of inorganic mesoporous mixed-oxide Bragg stacks with bio-inspired hygrochromic optical properties. Journal of Materials Chemistry C, 2013, 1, 6202.	5.5	39
65	Supramolecular Organization in Organicâ€“Inorganic Heterogeneous Hybrid Catalysts Formed from Polyoxometalate and Poly(ampholyte) Polymer. Langmuir, 2013, 29, 4388-4395.	3.5	39
66	Benzimidazole adsorption on the external and interlayer surfaces of raw and treated montmorillonite. Applied Clay Science, 2011, 53, 366-373.	5.2	38
67	Effect of compressive stress inducing a band gap narrowing on the photoinduced activities of solâ€“gel TiO2 films. Thin Solid Films, 2011, 520, 1147-1154.	1.8	38
68	Avoiding the deactivation of sulphated MoOx/TiO2 catalysts in the photocatalytic cyclohexane oxidative dehydrogenation by a fluidized bed photoreactor. Applied Catalysis A: General, 2011, 394, 71-78.	4.3	38
69	Mesoporous SiO2-TiO2 epoxidation catalysts: Tuning surface polarity to improve performance in the presence of water. Molecular Catalysis, 2018, 452, 123-128.	2.0	37
70	Hierarchical micro-/macroporous TS-1 zeolite epoxidation catalyst prepared by steam assisted crystallization. Microporous and Mesoporous Materials, 2020, 293, 109801.	4.4	37
71	Bifunctional catalytic isomerization of decane over MTT-type aluminosilicate zeolite crystals with siliceous rim. Journal of Catalysis, 2006, 239, 451-459.	6.2	36
72	The surface and catalytic properties of titania-supported mixed PMoV heteropoly compounds for total oxidation of chlorobenzene. Applied Catalysis A: General, 2007, 319, 14-24.	4.3	36

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73	Tuning the selectivity of MoOx supported catalysts for cyclohexane photo oxidehydrogenation. Catalysis Today, 2007, 128, 251-257.	4.4	36
74	Development of the HYD route of hydrodesulfurization of dibenzothiophenes over Pdâ€“Pt/Î³-Al2O3 catalysts. Journal of Catalysis, 2009, 267, 129-139.	6.2	36
75	Boron Nitride: A Support for Highly Active Heteropolyacids in the Methanol-to-DME Reaction. ACS Catalysis, 2017, 7, 4011-4017.	11.2	35
76	Effect of the chromium precursor nature on the physicochemical and catalytic properties of Crâ€“ZSM-5 catalysts: Application to the ammoxidation of ethylene. Journal of Molecular Catalysis A, 2011, 339, 8-16.	4.8	34
77	Morphology of crystalline Î±-MoO3 thin films spin-coated on Si (100). Thin Solid Films, 2000, 374, 49-58.	1.8	33
78	An attempt to explain the role of CO2 and N2O as gas dopes in the feed in the oxidative dehydrogenation of propane. Catalysis Today, 2003, 81, 95-105.	4.4	33
79	Behavior of cation-exchange resins employed as heterogeneous catalysts for esterification of oleic acid with trimethylolpropane. Applied Catalysis A: General, 2015, 504, 11-16.	4.3	33
80	Effect of support on V2O5 catalytic activity in chlorobenzene oxidation. Applied Catalysis A: General, 2012, 447-448, 1-6.	4.3	32
81	Oxidation of methanol to methyl formate over supported Pd nanoparticles: insights into the reaction mechanism at low temperature. Catalysis Science and Technology, 2014, 4, 3298-3305.	4.1	32
82	A New Bioâ€Inspired Route to Metalâ€Nanoparticleâ€Based Heterogeneous Catalysts. Small, 2008, 4, 1806-1812.	10.0	31
83	Study of the selectivity in FCC naphtha hydrotreating by modifying the acidâ€“base balance of CoMo/Î³-Al2O3 catalysts. Applied Catalysis A: General, 2010, 390, 59-70.	4.3	31
84	New supported vanadia catalysts for oxidation reactions prepared by sputter deposition. Journal of Catalysis, 2007, 245, 156-172.	6.2	30
85	Low temperature oxidation of methanol to methyl formate over Pd nanoparticles supported on Î³-Fe2O3. Catalysis Science and Technology, 2014, 4, 738.	4.1	30
86	Kinetics of hydrogen adsorption and mobility on Ru nanoparticles supported on alumina: Effects on the catalytic mechanism of ammonia synthesis. Journal of Catalysis, 2016, 344, 16-28.	6.2	29
87	Effect of the surface properties of Me2+/Al layered double hydroxides synthesized from aluminum saline slag wastes on the adsorption removal of drugs. Microporous and Mesoporous Materials, 2020, 309, 110560.	4.4	29
88	Photocatalytic cyclohexane oxidehydrogenation on sulphated MoOx/Î³-Al2O3 catalysts. Catalysis Today, 2009, 141, 367-373.	4.4	28
89	Ambient temperature ZrO2-doped TiO2 crystalline photocatalysts: Highly efficient powders and films for water depollution. Materials Today Energy, 2019, 13, 312-322.	4.7	28
90	Epoxidation of cyclohexene by iron and cobalt phthalocyanines, study of the side reactions. Journal of Molecular Catalysis A, 1996, 109, 67-74.	4.8	27

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91	New insights in the understanding of the behaviour and performances of bismuth molybdate catalysts in the oxygen-assisted dehydration of 2-butanol. Catalysis Today, 2000, 61, 279-285.	4.4	27
92	Catalytic Behavior of Molybdenum Suboxides in the Selective Oxidation of Isobutene to Methacrolein. Journal of Physical Chemistry B, 2000, 104, 5724-5737.	2.6	27
93	Interaction of N2O (as gas dope) with nickel molybdate catalysts during the oxidative dehydrogenation of propane to propylene. Applied Catalysis A: General, 2003, 247, 231-246.	4.3	27
94	Magnetic nanoparticles: Improving chemical stability via silica coating and organic grafting with silanes for acidic media catalytic reactions. Applied Catalysis A: General, 2015, 505, 200-212.	4.3	27
95	Improving the selectivity to 4-tert-butylresorcinol by adjusting the surface chemistry of heteropolyacid-based alkylation catalysts. Journal of Catalysis, 2018, 359, 198-211.	6.2	26
96	Titanosilicate Epoxidation Catalysts: A Review of Challenges and Opportunities. ChemCatChem, 2022, 14, .	3.7	26
97	Novel Reâ€“Sbâ€“O catalysts for the selective oxidation of isobutane and isobutylene. Applied Catalysis A: General, 2000, 202, 251-264.	4.3	25
98	Dynamic phenomena and catalytic reactivities of oxide surfaces. Applied Catalysis A: General, 2000, 202, 265-283.	4.3	25
99	Optimization of the preparation procedure of cobalt modified silicas as catalysts in methanol decomposition. Applied Catalysis A: General, 2012, 417-418, 209-219.	4.3	25
100	Mesoporous lithium vanadium oxide as a thin film electrode for lithium-ion batteries: comparison between direct synthesis of LiV₂O₅ and electrochemical lithium intercalation in V₂O₅. Journal of Materials Chemistry A, 2014, 2, 5809-5815.	10.3	25
101	Role of shaping in the preparation of heterogeneous catalysts: Tableting and slip-casting of oxidation catalysts. Catalysis Today, 2015, 246, 81-91.	4.4	25
102	Elucidating and exploiting the chemistry of Keggin heteropolyacids in the methanol-to-DME conversion: enabling the bulk reaction thanks to operando Raman. Catalysis Science and Technology, 2017, 7, 817-830.	4.1	25
103	Atomic force and scanning electron microscopic investigation of the in operandi creation of selective sites on MoO3 mixed with Î±-Sb2O4 in the isobutene to methacrolein oxidation. Applied Surface Science, 1997, 121-122, 552-557.	6.1	24
104	Sulfation Mechanism and Catalytic Behavior of Manganese Oxide in the Oxidation of Methanethiol. Journal of Physical Chemistry B, 2004, 108, 9989-10001.	2.6	24
105	Hybrid peroxotungstophosphate organized catalysts highly active and selective in alkene epoxidation. Catalysis Communications, 2013, 37, 80-84.	3.3	24
106	Catalytic Performances and Stability of Three Sbâ‹Moâ‹O Phases in the Selective Oxidation of Isobutene to Methacrolein. Journal of Physical Chemistry B, 1998, 102, 10542-10555.	2.6	23
107	Facile preparation of MoO3/SiO2-Al2O3 olefin metathesis catalysts by thermal spreading. Studies in Surface Science and Catalysis, 2010, , 581-585.	1.5	23
108	Necessary conditions for a synergy between Ag and V2O5 in the total oxidation of chlorobenzene. Catalysis Today, 2011, 175, 177-182.	4.4	23

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109	Characterization of H3+xPMo12â^'xVxO40 heteropolyacids supported on HMS mesoporous molecular sieve and their catalytic performance in propene oxidation. Microporous and Mesoporous Materials, 2012, 154, 153-163.	4.4	23
110	Bismuth molybdates prepared by solution combustion synthesis for the partial oxidation of propene. Catalysis Today, 2015, 257, 11-17.	4.4	23
111	Performance and Characterization of Novel Reâ^'Sbâ^'O Catalysts Active for the Selective Oxidation of Isobutylene to Methacrolein. Journal of Physical Chemistry B, 2000, 104, 2033-2043.	2.6	21
112	On the structure-sensitivity of 2-butanol dehydrogenation over Cu/SiO2 cogelled xerogel catalysts. Catalysis Communications, 2007, 8, 2032-2036.	3.3	21
113	Nitrided Zeolites: A Spectroscopic Approach for the Identification and Quantification of Incorporated Nitrogen Species. Journal of Physical Chemistry C, 2010, 114, 4527-4535.	3.1	21
114	Tuning the selectivity and sensitivity of mesoporous dielectric multilayers by modifiying the hydrophobicâ€"hydrophilic balance of the silica layer. Journal of Materials Chemistry, 2012, 22, 22526.	6.7	21
115	Establishing the Role of Graphite as a Shaping Agent of Vanadiumâ€"Aluminum Mixed (Hydr)oxides and Their Physicochemical Properties and Catalytic Functionalities. ACS Catalysis, 2012, 2, 322-336.	11.2	21
116	Porosity control and surface sensitivity of titania/silica mesoporous multilayer coatings: applications to optical Bragg resonance tuning and molecular sensing. Journal of Materials Chemistry, 2012, 22, 25302.	6.7	21
117	Periodic Mesoporous Organosilica Functionalized with Sulfonic Acid Groups as Acid Catalyst for Glycerol Acetylation. Materials, 2013, 6, 3556-3570.	2.9	21
118	Modulation of selective sites by introduction of N2O, CO2 and H2 as gaseous promoters into the feed during oxidation reactions. Catalysis Today, 2005, 99, 217-226.	4.4	20
119	Improving the selectivity to HDS in the HDT of synthetic FCC naphtha using sodium doped amorphous aluminosilicates as support of CoMo catalysts. Applied Catalysis A: General, 2012, 421-422, 48-57.	4.3	20
120	Direct Methyl Formate Formation from Methanol over Supported Palladium Nanoparticles at Low Temperature. ChemCatChem, 2013, 5, 339-348.	3.7	20
121	Sulfated zirconia: an efficient catalyst for the Friedelâ€"Crafts monoalkylation of resorcinol with methyl tertiary butyl ether to 4-tertiary butylresorcinol. New Journal of Chemistry, 2019, 43, 7733-7742.	2.8	20
122	Hydrophobic titania-silica mixed oxides for the catalytic epoxidation of cyclooctene. Catalysis Today, 2021, 363, 128-136.	4.4	20
123	Enhanced discolouration of methyl violet 10B in a gliding arc plasma reactor by the maghemite nanoparticles used as heterogeneous catalyst. Journal of Environmental Chemical Engineering, 2015, 3, 953-960.	6.7	19
124	Study of the gas-phase glycerol oxidehydration on systems based on transition metals (Co, Fe, V) and aluminium phosphate. Molecular Catalysis, 2018, 455, 68-77.	2.0	19
125	Title is missing!. Topics in Catalysis, 2000, 11/12, 185-193.	2.8	18
126	Comparative study of the sulfur loss in the xerogel and aerogel sulfated zirconia calcined at different temperatures: effect on n-hexane isomerization. Studies in Surface Science and Catalysis, 2006, 162, 953-960.	1.5	18

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127	TiO2 doping by hydroxyurea at the nucleation stage: towards a new photocatalyst in the visible spectral range. Physical Chemistry Chemical Physics, 2010, 12, 11325.	2.8	18
128	Disclosing the synergistic mechanism in the catalytic activity of different-sized Ru nanoparticles for ammonia synthesis at mild reaction conditions. Catalysis Today, 2015, 251, 88-95.	4.4	18
129	Effects of the Nitridation of Y and USY Zeolites on their Catalytic Activity for the Base Catalyzed Knoevenagel Condensation. Topics in Catalysis, 2009, 52, 1541-1548.	2.8	17
130	NbVO₅ Mesoporous Thin Films by Evaporation Induced Micelles Packing: Pore Size Dependence of the Mechanical Stability upon Thermal Treatment and Li Insertion/Extraction. Chemistry of Materials, 2011, 23, 4124-4131.	6.7	17
131	Theoretical condition for transparency in mesoporous layered optical media: Application to switching of hygrochromic coatings. Applied Physics Letters, 2014, 104, 023704.	3.3	17
132	Complementarity of heterogeneous and homogeneous catalysis for oleic acid esterification with trimethylolpropane over ion-exchange resins. Catalysis Communications, 2015, 59, 222-225.	3.3	17
133	CuxCryOz mixed oxide as a promising support for gold â€“ The effect of Au loading method on the effectiveness in oxidation reactions. Catalysis Today, 2012, 187, 48-55.	4.4	16
134	In Vitro Lipolysis and Intestinal Transport of Î²-Arteether-Loaded Lipid-Based Drug Delivery Systems. Pharmaceutical Research, 2013, 30, 2694-2705.	3.5	16
135	Catalytic ceramic papers for diesel soot oxidation: A spray method for enhanced performance. Catalysis Communications, 2015, 72, 116-120.	3.3	16
136	Synthetically Tuned Pd-Based Intermetallic Compounds and their Structural Influence on the O₂ Dissociation in Benzylamine Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 37602-37616.	8.0	16
137	â€œClickâ€•Silicaâ€Supported Sulfonic Acid Catalysts with Variable Acid Strength and Surface Polarity. Chemistry - A European Journal, 2019, 25, 6753-6762.	3.3	16
138	Supported Pd nanoparticles prepared by a modified water-in-oil microemulsion method. Studies in Surface Science and Catalysis, 2010, , 789-792.	1.5	15
139	Influence of Graphite as a Shaping Agent of Bi Molybdate Powders on Their Mechanical, Physicochemical, and Catalytic Properties. Industrial & Engineering Chemistry Research, 2011, 50, 5467-5477.	3.7	15
140	Influence of the impregnation order on the synergy between Ag and V2O5/TiO2 catalysts in the total oxidation of Cl-aromatic VOC. Catalysis Today, 2012, 192, 2-9.	4.4	15
141	Understanding the molecular basics behind catalyst shaping: Preparation of suspensions of vanadiumâ€“aluminum mixed (hydr)oxides. Applied Catalysis A: General, 2013, 468, 190-203.	4.3	15
142	Probing the Structural Changes and Redox Behavior of Mixed Molybdate Catalysts under Ammoxidation Conditions: An Operando Raman Spectroscopy Study. ChemCatChem, 2016, 8, 976-983.	3.7	15
143	Gliding Arc Plasma Synthesis of MnO2 Nanorods for the Plasma-Catalytic Bleaching of AzoÃ¯c Amaranth Red Dye. Topics in Catalysis, 2017, 60, 962-972.	2.8	15
144	V₂O₅/TiO₂ and V₂O₅/TiO₂â€“SO₄^{2â¾} catalysts for the total oxidation of chlorobenzene: one-step solâ€“gel preparation vs. two-step impregnation. Catalysis Science and Technology, 2019, 9, 2344-2350.	4.1	15

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145	Efficient N, Fe Co-Doped TiO2 Active under Cost-Effective Visible LED Light: From Powders to Films. Catalysts, 2020, 10, 547.	3.5	15
146	Role of the mutual contamination in the synergetic effects between MoO3 and SnO2. Thermochimica Acta, 2002, 388, 27-40.	2.7	14
147	The inhibitor role of NH 3 on its synthesis process at low temperature, over Ru catalytic nanoparticles. Catalysis Today, 2017, 286, 85-100.	4.4	14
148	Producing oxide catalysts by exploiting the chemistry of gliding arc atmospheric plasma in humid air. Catalysis Today, 2019, 334, 104-112.	4.4	14
149	Carbon black-polydopamine-ruthenium composite as a recyclable boomerang catalyst for the oxidative cleavage of oleic acid. Chemical Engineering Journal, 2022, 427, 131820.	12.7	14
150	Catalytic synergy via spillover at low temperature: the dehydration and dehydrogenation of sec-butanol in the presence of oxygen. Catalysis Today, 1997, 33, 151-160.	4.4	13
151	Factors controlling the development of the HYD route of desulfurization of DBT over Î³-alumina supported Pt and Pd catalysts. Catalysis Today, 2010, 150, 186-195.	4.4	13
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