Mickael Capron

List of Publications by Year
in descending order

85 papers	6,756 citations	117571 34 h-index	60583 81 g-index
90 all docs	90 docs citations	90 times ranked	7869 citing authors

#	Article	IF	Citations
1	Modelling one- and two-dimensional solid-state NMR spectra. Magnetic Resonance in Chemistry, 2002, 40, 70-76.	1.1	3,565
2	Selective catalytic oxidation of glycerol: perspectives for high value chemicals. Green Chemistry, 2011, 13, 1960.	4.6	468
3	Towards the Sustainable Production of Acrolein by Glycerol Dehydration. ChemSusChem, 2009, 2, 719-730.	3.6	221
4	A long-life catalyst for glycerol dehydration to acrolein. Green Chemistry, 2010, 12, 1922.	4.6	108
5	Structural, textural and acidâ€“base properties of carbonate-containing hydroxyapatites. Journal of Materials Chemistry A, 2014, 2, 11073-11090.	5.2	102
6	Recent Breakthroughs in the Conversion of Ethanol to Butadiene. Catalysts, 2016, 6, 203.	1.6	100
7	Ethanol-to-butadiene: the reaction and its catalysts. Catalysis Science and Technology, 2020, 10, 4860-4911.	2.1	100
8	Catalytic properties of Rh, Ni, Pd and Ce supported on Al-pillared montmorillonites in dry reforming of methane. Catalysis Today, 2009, 141, 385-392.	2.2	89
9	Reactivity of ethanol over hydroxyapatite-based Ca-enriched catalysts with various carbonate contents. Catalysis Science and Technology, 2015, 5, 2994-3006.	2.1	72
10	Highly productive iron molybdate mixed oxides and their relevant catalytic properties for direct synthesis of 1,1-dimethoxymethane from methanol. Applied Catalysis B: Environmental, 2014, 145, 126-135.	10.8	63
11	Crystallisation of spray-dried amorphous precursors in the SrOâ€“Al2O3 system: a DSC study. Journal of the European Ceramic Society, 2003, 23, 2075-2081.	2.8	56
12	Steam reforming, partial oxidation and oxidative steam reforming for hydrogen production from ethanol over cerium nickel based oxyhydride catalyst. Applied Catalysis A: General, 2016, 518, 78-86.	2.2	55
13	Dimerization of mono-ruthenium substituted Î±-Keggin-type tungstosilicate [Î±-SiW11O39RuIII(H2O)]5âˆ’to Âµ-oxo-bridged dimer in aqueous solution: synthesis, structure, and redox studies. Dalton Transactions, 2007, , 2833-2838.	1.6	51
14	Strontium Dialuminate SrAl₄O₇: Synthesis and Stability. Journal of the American Ceramic Society, 2002, 85, 3036-3040.	1.9	50
15	Catalytic oxidation of methanol on Mo/Al2O3 catalyst: An EPR and Raman/infrared operando spectroscopies study. Catalysis Today, 2006, 113, 34-39.	2.2	50
16	Novel approach to rhenium oxide catalysts for selective oxidation of methanol to DMM. Journal of Catalysis, 2011, 279, 310-318.	3.1	50
17	Catalytic behaviour of four different supported noble metals in the crude glycerol oxidation. Applied Catalysis A: General, 2015, 499, 89-100.	2.2	50
18	Direct dehydration of 1,3-butanediol into butadiene over aluminosilicate catalysts. Catalysis Science and Technology, 2016, 6, 5830-5840.	2.1	49

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19	Highly Efficient and Stable CeNiH_{<i>Z</i>}O_{<i>Y</i>} Nanoâ€Oxyhydride Catalyst for H₂ Production from Ethanol at Room Temperature. Angewandte Chemie - International Edition, 2011, 50, 10193-10197.	7.2	47
20	One-pot 1,1-dimethoxymethane synthesis from methanol: a promising pathway over bifunctional catalysts. Catalysis Science and Technology, 2016, 6, 958-970.	2.1	47
21	Room Temperature Hydrogen Production from Ethanol over CeNi_{<i>X</i>}H_{<i>Z</i>}O_{<i>Y</i>} Nanoâ€Oxyhydride Catalysts. ChemCatChem, 2013, 5, 2207-2216.	1.8	46
22	Hydrogen production from bioethanol catalyzed by NiXMg2AlOY ex-hydrotalcite catalysts. Applied Catalysis B: Environmental, 2014, 152-153, 370-382.	10.8	46
23	From sequential chemoenzymatic synthesis to integrated hybrid catalysis: taking the best of both worlds to open up the scope of possibilities for a sustainable future. Catalysis Science and Technology, 2018, 8, 5708-5734.	2.1	46
24	Catalytic processes for the direct synthesis of dimethyl carbonate from CO₂ and methanol: a review. Green Chemistry, 2022, 24, 1067-1089.	4.6	45
25	Crude glycerol as a raw material for the liquid phase oxidation reaction. Applied Catalysis A: General, 2014, 482, 245-257.	2.2	44
26	External surface phenomena in dealumination and desilication of large single crystals of ZSM-5 zeolite synthesized from a sustainable source. Microporous and Mesoporous Materials, 2019, 286, 57-64.	2.2	44
27	Amorphous oxide as a novel efficient catalyst for direct selective oxidation of methanol to dimethoxymethane. Chemical Communications, 2008, , 865-867.	2.2	40
28	ZnTa-TUD-1 as an easily prepared, highly efficient catalyst for the selective conversion of ethanol to 1,3-butadiene. Green Chemistry, 2018, 20, 3203-3209.	4.6	39
29	Quasiâ€Homogeneous Oxidation of Glycerol by Unsupported Gold Nanoparticles in the Liquid Phase. ChemSusChem, 2012, 5, 2065-2078.	3.6	38
30	Performance of Ag/Al₂O₃catalysts in the liquid phase oxidation of glycerol â€“ effect of preparation method and reaction conditions. Catalysis Science and Technology, 2016, 6, 3182-3196.	2.1	38
31	Hydrogen production from ethanol steam reforming over cerium and nickel based oxyhydrides. International Journal of Hydrogen Energy, 2010, 35, 12741-12750.	3.8	37
32	Direct conversion of methanol into 1,1-dimethoxymethane: remarkably high productivity over an FeMo catalyst placed under unusual conditions. Green Chemistry, 2010, 12, 1722.	4.6	37
33	Regeneration of Silicaâ€Supported Silicotungstic Acid as a Catalyst for the Dehydration of Glycerol. ChemSusChem, 2012, 5, 1298-1306.	3.6	37
34	Ceâ€“Ni mixed oxide as efficient catalyst for H2 production and nanofibrous carbon material from ethanol in the presence of water. RSC Advances, 2012, 2, 9626.	1.7	36
35	Sr4Al14O25: Formation, Stability, and27Al High-Resolution NMR Characterization. Chemistry of Materials, 2003, 15, 575-579.	3.2	33
36	Guerbet Reaction over Strontiumâ€Substituted Hydroxyapatite Catalysts Prepared at Various (Ca+Sr)/P Ratios. ChemCatChem, 2017, 9, 2250-2261.	1.8	30

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37	Biomass-derived Platform Molecules Upgrading through Catalytic Processes: Yielding Chemicals and Fuels. Journal of the Japan Petroleum Institute, 2015, 58, 257-273.	0.4	29
38	Highly loaded well dispersed stable Ni species in NiXMg2AlOY nanocomposites: Application to hydrogen production from bioethanol. Applied Catalysis B: Environmental, 2015, 166-167, 485-496.	10.8	29
39	Selective Oxidation of Alcohols to Carbonyl Compounds over Small Size Colloidal Ru Nanoparticles. ChemCatChem, 2020, 12, 238-247.	1.8	28
40	Glycerol oxidation over gold supported catalysts â€" â€œTwo facesâ€•of sulphur based anchoring agent. Journal of Molecular Catalysis A, 2014, 382, 71-78.	4.8	27
41	Transesterification of Diethyl Oxalate with Phenol over Solâ€"Gel MoO₃/TiO₂ Catalysts. ChemSusChem, 2012, 5, 1467-1473.	3.6	25
42	Glycerol to Glyceraldehyde Oxidation Reaction Over Pt-Based Catalysts Under Base-Free Conditions. Frontiers in Chemistry, 2019, 7, 156.	1.8	24
43	A new experimental cell forin situandoperandoX-ray absorption measurements in heterogeneous catalysis. Journal of Synchrotron Radiation, 2005, 12, 680-684.	1.0	23
44	Hydrogen production from ethanol in presence of water over cerium and nickel mixed oxides. Catalysis Today, 2010, 157, 456-461.	2.2	23
45	Porous modified bentonite as efficient and selective catalyst in the synthesis of 1,5-benzodiazepines. Journal of Porous Materials, 2013, 20, 65-73.	1.3	23
46	Development of Silver Based Catalysts Promoted by Noble Metal M (Mâ€‰=â€‰Au, Pd or Pt) for Glycerol Oxidation in Liquid Phase. Topics in Catalysis, 2017, 60, 1072-1081.	1.3	23
47	TiO2-supported rhenium oxide catalysts for methanol oxidation: Effect of support texture on the structure and reactivity evidenced by an operando Raman study. Catalysis Today, 2010, 155, 177-183.	2.2	21
48	Ethanol reactivity over La1+x FeO3+Î´ perovskites. Applied Catalysis A: General, 2016, 511, 141-148.	2.2	21
49	Selective oxidation of a pyrimidine thioether using supported tantalum catalysts. Journal of Catalysis, 2005, 235, 184-194.	3.1	19
50	Synthesis and Structural Characterization of a New Nanoporous-like Keggin Heteropolyanion Salt:â€‰ K₃(H₂O)₄[H₂SiVW₁₁O₄₀](H₂O)<sub>8</s Inorganic Chemistry, 2007, 46, 7371-7377.	2.9	19
51	Supported oxorhenate catalysts prepared by thermal spreading of metal Re0 for methanol conversion to methylal. Journal of Solid State Chemistry, 2011, 184, 2806-2811.	1.4	19
52	Plasmonic enhanced photocatalytic activity of semiconductors for the degradation of organic pollutants under visible light. Materials Science in Semiconductor Processing, 2016, 42, 81-84.	1.9	19
53	Optimisation of catalysts coupling in multi-catalytic hybrid materials: perspectives for the next revolution in catalysis. Green Chemistry, 2021, 23, 1942-1954.	4.6	18
54	Local structure and dynamics of high temperature SrOâ€"Al2O3 liquids studied by 27Al NMR and Sr K-edge XAS spectroscopy. Journal of Non-Crystalline Solids, 2001, 293-295, 496-501.	1.5	17

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55	Al13â€“[Xâ€“Mo/WOn] (X=Al, Co, V, P) composites as catalysts in clean oxidation of aromatic sulfides. Applied Catalysis B: Environmental, 2010, 100, 254-263.	10.8	17
56	Selective oxidation of ethanol towards a highly valuable product over industrial and model catalysts. Biofuels, 2012, 3, 25-34.	1.4	17
57	Effect of oxomolybdate species dispersion on direct methanol oxidation to dimethoxymethane over MoO_{<i>x</i>}/TiO₂ catalysts. Energy Science and Engineering, 2015, 3, 115-125.	1.9	17
58	Methanol and ethanol reactivity in the presence of hydrotalcites with Mg/Al ratios varying from 2 to 7. Catalysis Communications, 2017, 89, 14-18.	1.6	17
59	Properties and activity of Znâ€“Ta-TUD-1 in the Lebedev process. Green Chemistry, 2020, 22, 2558-2574.	4.6	17
60	Synthesis and spectroscopic 27Al NMR and Raman characterization of new materials based on the assembly of isopolycation and Coâ€“Cr and Anderson heteropolyanions. Journal of Molecular Structure, 2007, 841, 96-103.	1.8	15
61	High resolution NMR unraveling Cu substitution of Mg in hydrotalcitesâ€“ethanol reactivity. Applied Catalysis A: General, 2015, 504, 533-541.	2.2	14
62	Kinetic modeling of the quasiâ€homogeneous oxidation of glycerol over unsupported gold particles in the liquid phase. European Journal of Lipid Science and Technology, 2016, 118, 72-79.	1.0	14
63	From a Sequential Chemo-Enzymatic Approach to a Continuous Process for HMF Production from Glucose. Catalysts, 2018, 8, 335.	1.6	14
64	Hybrid Catalysis: A Suitable Concept for the Valorization of Biosourced Saccharides to Valueâ€Added Chemicals. ChemCatChem, 2017, 9, 2080-2084.	1.8	13
65	An acrolein production route from ethanol and methanol mixtures over FeMo-based catalysts. Green Chemistry, 2017, 19, 2666-2674.	4.6	13
66	An Alternative to the Cymenes Production from Scrap Tire Rubber Using Heteropolyacid Catalysts. Waste and Biomass Valorization, 2019, 10, 3057-3069.	1.8	13
67	Improving the synthesis of Zn-Ta-TUD-1 for the Lebedev process using the Design of Experiments methodology. Applied Catalysis A: General, 2020, 591, 117386.	2.2	13
68	SynthÃ¨se directe du 1,1-dimÃ©thoxymÃ©thane Ã partir de mÃ©thanol moyennant une modification mineure du procÃ©dÃ© de production de formaldÃ©hyde sur catalyseurs FeMo. Oil and Gas Science and Technology, 2010, 65, 751-762.	1.4	12
69	Synthesis and structural characterisation of Sr3Al10SiO20 by XRD and solid-state NMR. Journal of Solid State Chemistry, 2002, 169, 53-59.	1.4	11
70	Acrolein production from methanol and ethanol mixtures over La- and Ce-doped FeMo catalysts. Applied Catalysis B: Environmental, 2018, 237, 149-157.	10.8	10
71	Thermoplasmonic-induced energy-efficient catalytic oxidation of glycerol over gold supported catalysts using visible light at ambient temperature. Applied Catalysis A: General, 2019, 572, 9-14.	2.2	10
72	Synthesis and characterization of zirconia-grafted SBA-15 nanocomposites. Journal of Materials Chemistry, 2011, 21, 8159.	6.7	9

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73	Kinetic modelling of the glycerol oxidation in the liquid phase: comparison of Pt, Au and Ag <scp>AS</scp> active phases. Journal of Chemical Technology and Biotechnology, 2017, 92, 2267-2275.	1.6	9
74	Glycerol Oxidation in the Liquid Phase over a Gold-Supported Catalyst: Kinetic Analysis and Modelling. ChemEngineering, 2017, 1, 7.	1.0	9
75	Al-modified mesoporous silica for efficient conversion of methanol to dimethyl ether. RSC Advances, 2013, 3, 5895.	1.7	8
76	Catalytic Production of Glycolic Acid from Glycerol Oxidation: An Optimization Using Response Surface Methodology. Catalysts, 2021, 11, 257.	1.6	8
77	TiO2-anatase-supported oxorhenate catalysts prepared by oxidative redispersion of metal Re0 for methanol conversion to methylal: A multi-technique in situ/operando study. Comptes Rendus Chimie, 2014, 17, 808-817.	0.2	7
78	Glycerol Partial Oxidation over Pt/Al₂O₃ Catalysts under Basic and Baseâ€Free Conditionsâ€"Effect of the Particle Size. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 63-74.	0.8	7
79	Extending Catalyst Life in Glycerol-to-Acrolein Conversion Using Non-thermal Plasma. Frontiers in Chemistry, 2019, 7, 108.	1.8	6
80	TEMPO-Ru-BEA Composite Material for the Selective Oxidation of Alcohols to Aldehydes. ACS Catalysis, 2022, 12, 8925-8935.	5.5	5
81	Novel La₃Fe(MoO₄)₆ phase: magnetic properties and ethanol reactivity. Dalton Transactions, 2015, 44, 14444-14452.	1.6	3
82	Heterogenization of Complexes by Encapsulation in Solid Micelles for Aqueous-Phase Catalysis. Chemistry of Materials, 0, , .	3.2	3
83	Strengthening the Connection between Science, Society and Environment to Develop Future French and European Bioeconomies: Cutting-Edge Research of VAALBIO Team at UCCS. Molecules, 2022, 27, 3889.	1.7	3
84	Reactive Distillation of Glycolic Acid Using Heterogeneous Catalysts: Experimental Studies and Process Simulation. Frontiers in Chemistry, 0, 10, .	1.8	1
85	Passing the Frontiers of Liquidâ€Phase Glycerol Partial Oxidation over Supported Bimetallic Catalysts. Advanced Sustainable Systems, 2020, 4, 2000002.	2.7	0