Nathalie Tanchoux

List of Publications by Year
in descending order

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56 papers	2,139 citations	218677 26 h-index	223800 46 g-index
61 all docs	61 docs citations	61 times ranked	3012 citing authors

#	Article	IF	Citations
1	Hydrocarbon Adsorption in the Flexible Metal Organic Frameworks MIL-53(Al, Cr). Journal of the American Chemical Society, 2008, 130, 16926-16932.	13.7	244
2	Boronic acid-modified alginate enables direct formation of injectable, self-healing and multistimuli-responsive hydrogels. Chemical Communications, 2017, 53, 3350-3353.	4.1	139
3	Microreactors for Dynamic, High Throughput Screening of Fluid/Liquid Molecular Catalysis. Angewandte Chemie - International Edition, 2000, 39, 3442-3445.	13.8	132
4	Catalytic valorization of bioethanol over Cu-Mg-Al mixed oxide catalysts. Catalysis Today, 2009, 147, 231-238.	4.4	117
5	Etherification of glycerol with ethanol over solid acid catalysts. Green Chemistry, 2009, 11, 1256.	9.0	106
6	Catalytic Conversion of Ethanol into Butanol over Mâ€“Mgâ€“Al Mixed Oxide Catalysts (MÂ=ÂPd, Ag, Mn, Fe,) Tj ETQq0 0 0 rgBT /Overlo	2.6	90
7	New Cu-based mixed oxides obtained from LDH precursors, catalysts for methane total oxidation. Applied Catalysis A: General, 2009, 363, 135-142.	4.3	84
8	Kinetics of the selective catalytic reduction of NO by NH3 on a Cu-faujasite catalyst. Applied Catalysis B: Environmental, 2004, 52, 251-257.	20.2	83
9	Self-healing alginateâ€“gelatin biohydrogels based on dynamic covalent chemistry: elucidation of key parameters. Materials Chemistry Frontiers, 2017, 1, 73-79.	5.9	77
10	Study and modelling of kinetics of the oxidation of VOC catalyzed by nanosized Cuâ€“Mn spinels prepared via an alginate route. Applied Catalysis A: General, 2015, 504, 203-210.	4.3	75
11	Transition metal-containing mixed oxides catalysts derived from LDH precursors for short-chain hydrocarbons oxidation. Applied Catalysis A: General, 2011, 395, 78-86.	4.3	66
12	Adsorption of C5â€“C9 hydrocarbons in microporous MOFs MIL-100(Cr) and MIL-101(Cr): A manometric study. Microporous and Mesoporous Materials, 2010, 134, 134-140.	4.4	65
13	Heterogeneous catalysis and confinement effects. Applied Catalysis A: General, 2006, 307, 51-57.	4.3	54
14	Chitosan Aerogel Beads as a Heterogeneous Organocatalyst for the Asymmetric Aldol Reaction in the Presence of Water: An Assessment of the Effect of Additives. European Journal of Organic Chemistry, 2013, 2013, 588-594.	2.4	51
15	The adsorption of hexane over MCM-41 type materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 246, 1-8.	4.7	48
16	Mixed-Oxide Catalysts with Spinel Structure for the Valorization of Biomass: The Chemical-Loop Reforming of Bioethanol. Catalysts, 2018, 8, 332.	3.5	46
17	A Macrothermodynamic Approach to the Limit of Reversible Capillary Condensation. Langmuir, 2005, 21, 8560-8564.	3.5	39
18	Total oxidation of methane over rare earth cation-containing mixed oxides derived from LDH precursors. Applied Catalysis A: General, 2013, 464-465, 20-27.	4.3	37

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19	Sodium and acidic alginate foams with hierarchical porosity: Preparation, characterization and efficiency as a dye adsorbent. Carbohydrate Polymers, 2017, 178, 78-85.	10.2	35
20	Study of n-hexane adsorption in MCM-41 mesoporous materials: a scaling effect approach of capillary condensation processes. New Journal of Chemistry, 2004, 28, 874.	2.8	34
21	Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. Green Chemistry, 2016, 18, 1038-1050.	9.0	34
22	Spinel Mixed Oxides for Chemical-Loop Reforming: From Solid State to Potential Application. Studies in Surface Science and Catalysis, 2019, 178, 281-302.	1.5	34
23	Confinements effects in MCM-41-type materials: Comparison of the energetics of n-hexane and 1-hexene adsorption. Microporous and Mesoporous Materials, 2005, 86, 354-363.	4.4	33
24	Alginic acid aerogel: a heterogeneous BrÃ¸nsted acid promoter for the direct Mannich reaction. New Journal of Chemistry, 2015, 39, 4222-4226.	2.8	29
25	Hydrogenation of 2-butyne-1,4-diol on supported Pd catalysts obtained from LDH precursors. Microporous and Mesoporous Materials, 2007, 99, 118-125.	4.4	27
26	Total oxidation of methane over supported CuO: Influence of the Mg x Al y O support. Applied Catalysis A: General, 2017, 538, 81-90.	4.3	27
27	New reactors and methods for the investigation of homogeneous catalysis. Journal of Organometallic Chemistry, 1998, 567, 143-150.	1.8	23
28	Effect of non-linear kinetics on the enantioselectivity in the H-transfer asymmetric homogeneous reduction of arylketones with a rhodium diamine catalyst. Tetrahedron: Asymmetry, 1998, 9, 3677-3686.	1.8	20
29	Confinement and curvature effects as a tool for selectivity orientation in heterogeneous catalysis: Isomerisation of n-hexene over MCM-41-type catalysts. Journal of Molecular Catalysis A, 2009, 305, 8-15.	4.8	19
30	New mixed lanthanum- and alkaline-earth cation-containing basic catalysts obtained by an alginate route. Catalysis Today, 2012, 189, 28-34.	4.4	16
31	Copper-nickel mixed oxide catalysts from layered double hydroxides for the hydrogen-transfer valorisation of lignin in organosolv pulping. Applied Catalysis A: General, 2021, 609, 117929.	4.3	16
32	Propane Oxidative Dehydrogenation Over Lnâ€“Mgâ€“Alâ€“O Catalysts (LnÂ=ÂCe, Sm, Dy, Yb). Catalysis Letters, 2009, 131, 250-257.	2.6	15
33	Structural Changes of Binary/Ternary Spinel Oxides During Ethanol Anaerobic Decomposition. ChemCatChem, 2017, 9, 2219-2230.	3.7	15
34	Dynamic methods and new reactors for liquid phase molecular catalysis. Catalysis Today, 2001, 66, 145-155.	4.4	14
35	Synthesis of TiO2â€“ZrO2 Mixed Oxides via the Alginate Route: Application in the Ru Catalytic Hydrogenation of Levulinic Acid to Gamma-Valerolactone. Energies, 2019, 12, 4706.	3.1	12
36	Concomitant use of liquidâ€“liquid batch and continuous plug flow reactors for kinetic model discrimination. Application to the Rh/TPPTS catalysed reduction of the Câ€“C double bond in dimethylitaconate. Catalysis Today, 1999, 48, 211-219.	4.4	11

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37	Keratin Protein-Catalyzed Nitroaldol (Henry) Reaction and Comparison with Other Biopolymers. Molecules, 2016, 21, 1122.	3.8	11
38	Adsorption of a Chiral Amine on Alginate Gel Beads and Evaluation of its Efficiency as Heterogeneous Enantioselective Catalyst. European Journal of Organic Chemistry, 2019, 2019, 3842-3849.	2.4	11
39	Heterogeneous Catalysis as a Tool for Production of Aromatic Compounds From Lignin. Studies in Surface Science and Catalysis, 2019, 178, 257-275.	1.5	11
40	New Evidence of Confinement Effects in Mesoporous Materials and the Definition of Confined Pitzer Acentric Factors. Journal of Physical Chemistry B, 2005, 109, 16415-16420.	2.6	10
41	Alginate: A Versatile Biopolymer for Functional Advanced Materials for Catalysis. Studies in Surface Science and Catalysis, 2019, , 357-375.	1.5	10
42	Blue Chemistry. Marine Polysaccharide Biopolymers in Asymmetric Catalysis: Challenges and Opportunities. European Journal of Organic Chemistry, 2020, 2020, 3779-3795.	2.4	10
43	Transition Metal B-Site Substitutions in LaAlO3 Perovskites Reorient Bio-Ethanol Conversion Reactions. Catalysts, 2021, 11, 344.	3.5	9
44	Kinetic and Mechanistic Study of the H-Transfer Reduction of Dimethyl Itaconate by a Rh/TPPTS Catalyst under Biphasic Conditions: Evidence for a Rhodametallacycle Intermediate. European Journal of Inorganic Chemistry, 2000, 2000, 1495-1502.	2.0	8
45	Structural modifications of calcium based catalysts by non-thermal plasma in the CO2 reforming of CH4 and the influence of water. Journal of CO2 Utilization, 2020, 35, 79-89.	6.8	8
46	Confinement at nanometer scale: why and how?. Studies in Surface Science and Catalysis, 2002, , 1057-1066.	1.5	6
47	Condensation enthalpies of n-hexane in micelle-templated mesoporous silicas. Journal of Porous Materials, 2007, 14, 279-284.	2.6	5
48	Modulating Properties of Pure ZrO₂ for Structureâ€“activity Relationships in Acidâ€base Catalysis: Contribution of the Alginate Preparation Route. ChemCatChem, 2017, 9, 2358-2365.	3.7	5
49	Adsorption and confinement of n-butyraldehyde by porous materials followed by CIR spectrometry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 381, 92-98.	4.7	4
50	The Pivotal Role of Catalysis in France: Selected Examples of Recent Advances and Future Prospects.. ChemCatChem, 2017, 9, 2029-2064.	3.7	2
51	On the R&D Landscape Evolution in Catalytic Upgrading of Biomass. Studies in Surface Science and Catalysis, 2019, , 149-171.	1.5	2
52	Supercritical Carbon Dioxide as an Environmentally Benign Reaction Medium for Chemical Synthesis. ChemInform, 2003, 34, no.	0.0	0
53	Competition between organics adsorbed in mesoporous MCM-41 materials: predictions for heterogeneous catalysis. Studies in Surface Science and Catalysis, 2005, 156, 643-648.	1.5	0
54	The selective adsorption of n-alkanes over breathing metal organic frameworks. Studies in Surface Science and Catalysis, 2007, , 855-860.	1.5	0

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55	Evidences of surface curvature effects in mesoporous materials through the study of 1-hexene isomerization. Studies in Surface Science and Catalysis, 2007, , 1104-1110.	1.5	0
56	Editorial on Special Issues â€œAerogelsâ€•and â€œAerogels 2018â€• Gels, 2020, 6, 19.	4.5	0