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	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
2	Transition Metal B-Site Substitutions in LaAlO3 Perovskites Reorient Bio-Ethanol Conversion Reactions. Catalysts, 2021, 11, 344.	3.5	9
3	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
4	Editorial on Special Issues â€œAerogelsâ€•and â€œAerogels 2018â€• Gels, 2020, 6, 19.	4.5	0
5	Blue Chemistry. Marine Polysaccharide Biopolymers in Asymmetric Catalysis: Challenges and Opportunities. European Journal of Organic Chemistry, 2020, 2020, 3779-3795.	2.4	10
6	Alginate: A Versatile Biopolymer for Functional Advanced Materials for Catalysis. Studies in Surface Science and Catalysis, 2019, , 357-375.	1.5	10
7	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
8	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
9	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
10	On the R&D Landscape Evolution in Catalytic Upgrading of Biomass. Studies in Surface Science and Catalysis, 2019, , 149-171.	1.5	2
11	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
12	Mixed-Oxide Catalysts with Spinel Structure for the Valorization of Biomass: The Chemical-Loop Reforming of Bioethanol. Catalysts, 2018, 8, 332.	3.5	46
13	Structural Changes of Binary/Ternary Spinel Oxides During Ethanol Anaerobic Decomposition. ChemCatChem, 2017, 9, 2219-2230.	3.7	15
14	Boronic acid-modified alginate enables direct formation of injectable, self-healing and multistimuli-responsive hydrogels. Chemical Communications, 2017, 53, 3350-3353.	4.1	139
15	The Pivotal Role of Catalysis in France: Selected Examples of Recent Advances and Future Prospects.. ChemCatChem, 2017, 9, 2029-2064.	3.7	2
16	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
17	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
18	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

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19	Self-healing alginateâ€“gelatin biohydrogels based on dynamic covalent chemistry: elucidation of key parameters. Materials Chemistry Frontiers, 2017, 1, 73-79.	5.9	77
20	Keratin Protein-Catalyzed Nitroaldol (Henry) Reaction and Comparison with Other Biopolymers. Molecules, 2016, 21, 1122.	3.8	11
21	Towards an improved process for hydrogen production: the chemical-loop reforming of ethanol. Green Chemistry, 2016, 18, 1038-1050.	9.0	34
22	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
23	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
24	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
25	Catalytic Conversion of Ethanol into Butanol over Mâ€“Mgâ€“Al Mixed Oxide Catalysts (MÂ=ÂPd, Ag, Mn, Fe,) Tj ETQq1 1 0.784314 rgB	2.6	90
26	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
27	New mixed lanthanum- and alkaline-earth cation-containing basic catalysts obtained by an alginate route. Catalysis Today, 2012, 189, 28-34.	4.4	16
28	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
29	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
30	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
31	Propane Oxidative Dehydrogenation Over Lnâ€“Mgâ€“Alâ€“O Catalysts (LnÂ=ÂCe, Sm, Dy, Yb). Catalysis Letters, 2009, 131, 250-257.	2.6	15
32	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
33	Catalytic valorization of bioethanol over Cu-Mg-Al mixed oxide catalysts. Catalysis Today, 2009, 147, 231-238.	4.4	117
34	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
35	Etherification of glycerol with ethanol over solid acid catalysts. Green Chemistry, 2009, 11, 1256.	9.0	106
36	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

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37	The selective adsorption of n-alkanes over breathing metal organic frameworks. Studies in Surface Science and Catalysis, 2007, , 855-860.	1.5	0
38	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
39	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
40	Condensation enthalpies of n-hexane in micelle-templated mesoporous silicas. Journal of Porous Materials, 2007, 14, 279-284.	2.6	5
41	Heterogeneous catalysis and confinement effects. Applied Catalysis A: General, 2006, 307, 51-57.	4.3	54
42	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
43	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
44	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
45	A Macrothermodynamic Approach to the Limit of Reversible Capillary Condensation. Langmuir, 2005, 21, 8560-8564.	3.5	39
46	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
47	The adsorption of hexane over MCM-41 type materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 246, 1-8.	4.7	48
48	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
49	Supercritical Carbon Dioxide as an Environmentally Benign Reaction Medium for Chemical Synthesis. ChemInform, 2003, 34, no.	0.0	0
50	Confinement at nanometer scale: why and how?. Studies in Surface Science and Catalysis, 2002, , 1057-1066.	1.5	6
51	Dynamic methods and new reactors for liquid phase molecular catalysis. Catalysis Today, 2001, 66, 145-155.	4.4	14
52	Microreactors for Dynamic, High Throughput Screening of Fluid/Liquid Molecular Catalysis. Angewandte Chemie - International Edition, 2000, 39, 3442-3445.	13.8	132
53	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
54	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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55	New reactors and methods for the investigation of homogeneous catalysis. Journal of Organometallic Chemistry, 1998, 567, 143-150.	1.8	23
56	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