

Jean-Luc Dubois

List of Publications by Year in descending order

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62
papers

2,195
citations

201674

27
h-index

233421

45
g-index

64
all docs

64
docs citations

64
times ranked

2111
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic dehydration of glycerol over vanadium phosphate oxides in the presence of molecular oxygen. <i>Journal of Catalysis</i> , 2009, 268, 260-267.	6.2	194
2	Catalytic performance of vanadium pyrophosphate oxides (VPO) in the oxidative dehydration of glycerol. <i>Applied Catalysis A: General</i> , 2010, 376, 25-32.	4.3	133
3	Catalysis for the synthesis of methacrylic acid and methyl methacrylate. <i>Chemical Society Reviews</i> , 2018, 47, 7703-7738.	38.1	123
4	Renewable materials as precursors of linear nitrile-acid derivatives via cross-metathesis of fatty esters and acids with acrylonitrile and fumaronitrile. <i>Green Chemistry</i> , 2009, 11, 152-155.	9.0	118
5	Common features of oxidative coupling of methane cofeed catalysts. <i>Applied Catalysis</i> , 1990, 67, 49-71.	0.8	116
6	Early-Stage Capital Cost Estimation of Biorefinery Processes: A Comparative Study of Heuristic Techniques. <i>ChemSusChem</i> , 2016, 9, 2284-2297.	6.8	79
7	Glycerol dehydration over calcium phosphate catalysts: Effect of acidic/basic features on catalytic performance. <i>Applied Catalysis A: General</i> , 2012, 447-448, 124-134.	4.3	69
8	Glycerol conversion to acrylonitrile by consecutive dehydration over WO ₃ /TiO ₂ and ammoxidation over Sb-(Fe,V)-O. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 170-182.	20.2	65
9	Highly productive iron molybdate mixed oxides and their relevant catalytic properties for direct synthesis of 1,1-dimethoxymethane from methanol. <i>Applied Catalysis B: Environmental</i> , 2014, 145, 126-135.	20.2	63
10	Progress in Reaction Mechanisms and Reactor Technologies for Thermochemical Recycling of Poly(methyl methacrylate). <i>Polymers</i> , 2020, 12, 1667.	4.5	62
11	Strategy in achieving propane selective oxidation over multi-functional Mo-based oxide catalysts. <i>Journal of Molecular Catalysis A</i> , 2004, 220, 67-76.	4.8	59
12	Tandem Catalytic Acrylonitrile Cross-Metathesis and Hydrogenation of Nitriles with Ruthenium Catalysts: Direct Access to Linear 1,1'-Aminoesters from Renewables. <i>ChemSusChem</i> , 2012, 5, 1410-1414.	6.8	59
13	Influence of surface acid-base properties of zirconia and titania based catalysts on the product selectivity in gas phase dehydration of glycerol. <i>Catalysis Communications</i> , 2012, 17, 23-28.	3.3	55
14	Catalytic Oxidative Dehydration of Glycerol over a Catalyst with Iron Oxide Domains Embedded in an Iron Orthovanadate Phase. <i>ChemSusChem</i> , 2010, 3, 1383-1389.	6.8	48
15	Transient acrolein selectivity and carbon deposition study of glycerol dehydration over WO ₃ /TiO ₂ catalyst. <i>Chemical Engineering Journal</i> , 2015, 270, 557-563.	12.7	48
16	Catalytic glycerol hydrogenolysis to 1,3-propanediol in a gas-solid fluidized bed. <i>RSC Advances</i> , 2017, 7, 3853-3860.	3.6	47
17	X-Ray Photoelectron Spectroscopic Studies of Lanthanum Oxide Based Oxidative Coupling of Methane Catalysts. <i>Chemistry Letters</i> , 1990, 19, 967-970.	1.3	46
18	Ruthenium-Benzylidenes and Ruthenium-Indenylidenes as Efficient Catalysts for the Hydrogenation of Aliphatic Nitriles into Primary Amines. <i>ChemCatChem</i> , 2012, 4, 1911-1916.	3.7	46

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19	Amorphous oxide as a novel efficient catalyst for direct selective oxidation of methanol to dimethoxymethane. <i>Chemical Communications</i> , 2008, , 865-867.	4.1	40
20	Direct conversion of methanol into 1,1-dimethoxymethane: remarkably high productivity over an FeMo catalyst placed under unusual conditions. <i>Green Chemistry</i> , 2010, 12, 1722.	9.0	37
21	Examination of acid–base properties of solid catalysts for gas phase dehydration of glycerol: FTIR and adsorption microcalorimetry studies. <i>Catalysis Today</i> , 2014, 226, 167-175.	4.4	36
22	Gas phase dehydration of glycerol to acrolein: Coke on WO ₃ /TiO ₂ reduces by-products. <i>Journal of Molecular Catalysis A</i> , 2016, 421, 146-155.	4.8	33
23	Rhodium–Catalyzed Tandem Isomerization/Hydroformylation of the Bio–Sourced 10–Undecenitrile: Selective and Productive Catalysts for Production of Polyamide–2 Precursor. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3191-3204.	4.3	31
24	Sustainable route to methyl-9-hydroxononanoate (polymer precursor) by oxidative cleavage of fatty acid methyl ester from rapeseed oil. <i>Green Chemistry</i> , 2014, 16, 96-101.	9.0	31
25	Oxidative Cleavage of Fatty Acid Derivatives for Monomer Synthesis. <i>Catalysts</i> , 2018, 8, 464.	3.5	30
26	Risk Analysis on PMMA Recycling Economics. <i>Polymers</i> , 2021, 13, 2724.	4.5	30
27	Coke promoters improve acrolein selectivity in the gas-phase dehydration of glycerol to acrolein. <i>Applied Catalysis A: General</i> , 2016, 522, 80-89.	4.3	29
28	Oxidative coupling of methane over thoria based catalysts. <i>Applied Catalysis</i> , 1990, 67, 73-79.	0.8	27
29	Cross–Metathesis of Biosourced Fatty Acid Derivatives: A Step Further Toward Improved Reactivity. <i>ChemSusChem</i> , 2015, 8, 1143-1146.	6.8	27
30	Selective oxidation of hydrocarbons and the global warming problem. <i>Catalysis Today</i> , 2005, 99, 5-14.	4.4	26
31	Ammoniation-Dehydration of Fatty Acids into Nitriles: Heterogeneous or Homogeneous Catalysis?. <i>ChemSusChem</i> , 2013, 6, 1478-1489.	6.8	25
32	Electro-oxidation of hydrolysed poly-oxymethylene-dimethylether on PtRu supported catalysts. <i>Electrochimica Acta</i> , 2011, 56, 1460-1465.	5.2	21
33	Rhodium versus Iridium Catalysts in the Controlled Tandem Hydroformylation–Isomerization of Functionalized Unsaturated Fatty Substrates. <i>ChemCatChem</i> , 2015, 7, 513-520.	3.7	20
34	Detoxification of castor meal through reactive seed crushing. <i>Industrial Crops and Products</i> , 2013, 43, 194-199.	5.2	19
35	Ruthenium catalyzed ethenolysis of renewable oleonitrile. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1583-1589.	1.5	19
36	Influence of Catalyst Acid/Base Properties in Acrolein Production by Oxidative Coupling of Ethanol and Methanol. <i>ChemSusChem</i> , 2017, 10, 1916-1930.	6.8	19

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37	Cs, V, Cu Keggin-type catalysts partially oxidize 2-methyl-1,3-propanediol to methacrylic acid. <i>Applied Catalysis A: General</i> , 2018, 554, 105-116.	4.3	19
38	Synergy between Stable Carbonates and Yttria in Selective Catalytic Oxidation of Methane. <i>Chemistry Letters</i> , 1991, 20, 1089-1092.	1.3	18
39	Cross-metathesis of fatty acid methyl esters with acrolein: An entry to a variety of bifunctional compounds. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 209-216.	1.5	18
40	Gas phase oxidation of 2-methyl-1,3-propanediol to methacrylic acid over heteropolyacid catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 6525-6535.	4.1	18
41	Selective oxidation of ethanol towards a highly valuable product over industrial and model catalysts. <i>Biofuels</i> , 2012, 3, 25-34.	2.4	17
42	Cross metathesis of bio-sourced fatty nitriles with acrylonitrile. <i>Monatshefte für Chemie</i> , 2015, 146, 1107-1113.	1.8	17
43	Partial oxidation of 2-methyl-1,3-propanediol to methacrylic acid: experimental and neural network modeling. <i>RSC Advances</i> , 2016, 6, 114123-114134.	3.6	16
44	Ammoxidation of acrolein to acrylonitrile over bismuth molybdate catalysts. <i>Applied Catalysis A: General</i> , 2016, 520, 7-12.	4.3	16
45	A Comparative Study of Basic, Amphoteric, and Acidic Catalysts in the Oxidative Coupling of Methanol and Ethanol for Acrolein Production. <i>ChemSusChem</i> , 2017, 10, 3459-3472.	6.8	16
46	Ruthenium-catalyzed hydroformylation of the functional unsaturated fatty nitrile 10-undecenitrile. <i>Journal of Molecular Catalysis A</i> , 2016, 417, 116-121.	4.8	14
47	Economic risk assessment using Monte Carlo simulation for the production of azelaic acid and pelargonic acid from vegetable oils. <i>Industrial Crops and Products</i> , 2020, 150, 112411.	5.2	11
48	Acrolein production from methanol and ethanol mixtures over La- and Ce-doped FeMo catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 149-157.	20.2	10
49	A method for quick capital cost estimation of biorefineries beyond the state of the art. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1061-1088.	3.7	10
50	Rhodium-Catalyzed Homogeneous and Aqueous Biphasic Hydroformylation of the Acrolein Acetal 2-(vinylmethyl)-1,3-dioxane. <i>ChemCatChem</i> , 2013, 5, 1562-1569.	3.7	9
51	Oxidative coupling of a mixture of bio-alcohols to produce a more sustainable acrolein: An in depth look in the mechanism implying aldehydes co-adsorption and acid/base sites. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118421.	20.2	9
52	Sustainable acrolein production from bio-alcohols on spinel catalysts: Influence of magnesium substitution by various transition metals (Fe, Zn, Co, Cu, Mn). <i>Applied Catalysis A: General</i> , 2020, 608, 117871.	4.3	9
53	Rhodium-Biphenos-Catalyzed Tandem Isomerization-Hydroformylation of Oleonitrile. <i>Catalysts</i> , 2018, 8, 21.	3.5	7
54	Synthesis of acrolein by oxidative coupling of alcohols over spinel catalysts: microcalorimetric and spectroscopic approaches. <i>Catalysis Science and Technology</i> , 2020, 10, 1889-1901.	4.1	7

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55	Fluidized bed poly(methyl methacrylate) thermolysis to methyl methacrylate followed by catalytic hydrolysis to methacrylic acid. <i>Applied Catalysis A: General</i> , 2022, 638, 118637.	4.3	5
56	Reductive Amination of Aldehyde Ester from Vegetable Oils to Produce Amino Ester in the Presence of Anhydrous Ammonia. <i>ChemistrySelect</i> , 2016, 1, 2004-2008.	1.5	4
57	Insights in the Rhodium-Catalyzed Tandem Isomerization-Hydroformylation of 10-Undecenitrile: Evidence for a Fast Isomerization Regime. <i>Catalysts</i> , 2018, 8, 148.	3.5	4
58	Coupling Rhodium-Catalyzed Hydroformylation of 10-Undecenitrile with Organic Solvent Nanofiltration: Toluene Solution versus Solvent-Free Processes. <i>ChemPlusChem</i> , 2019, 84, 1744-1760.	2.8	4
59	Surface Studies of La ₂ O ₃ Based OCM Catalysts by XPS: Does Surface Peroxycarbonate Play an Important Role in Catalyst Selectivity?. <i>Studies in Surface Science and Catalysis</i> , 1991, 61, 107-114.	1.5	2
60	Molybdate/Antimonate as Key Metal Oxide Catalysts for Acrolein Ammoxidation to Acrylonitrile. <i>Catalysis Letters</i> , 2017, 147, 2826-2834.	2.6	2
61	Review on Alternative Route to Acrolein through Oxidative Coupling of Alcohols. <i>Catalysts</i> , 2021, 11, 229.	3.5	2
62	Acrolein production by oxidative coupling of alcohols over zinc and cobalt aluminate spinels enlightened by adsorption calorimetry study. <i>Catalysis Today</i> , 2021, , .	4.4	0