

Samir Bensaid

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2219340/publications.pdf>

Version: 2024-02-01

88
papers

4,001
citations

94381

37
h-index

123376

61
g-index

88
all docs

88
docs citations

88
times ranked

4426
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling hydrothermal liquefaction and aqueous phase reforming for integrated production of biocrude and renewable H ₂ . <i>AIChE Journal</i> , 2023, 69, .	1.8	9
2	Aqueous phase reforming process for the valorization of wastewater streams: Application to different industrial scenarios. <i>Catalysis Today</i> , 2022, 387, 224-236.	2.2	59
3	A critical review on catalyst design for aqueous phase reforming. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 151-180.	3.8	54
4	Wide range temperature stability of palladium on ceria-praseodymia catalysts for complete methane oxidation. <i>Catalysis Today</i> , 2022, 390-391, 185-197.	2.2	7
5	Nanostructured ceria-based catalysts doped with La and Nd: How acid-base sites and redox properties determine the oxidation mechanisms. <i>Catalysis Today</i> , 2022, 390-391, 117-134.	2.2	14
6	Cerium-Copper Oxides Synthesized in a Multi-Inlet Vortex Reactor as Effective Nanocatalysts for CO and Ethene Oxidation Reactions. <i>Catalysts</i> , 2022, 12, 364.	1.6	4
7	CO ₂ Conversion to Alcohols over Cu/ZnO Catalysts: Prospective Synergies between Electrocatalytic and Thermocatalytic Routes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 517-530.	4.0	25
8	Aqueous phase reforming of pilot-scale Fischer-Tropsch water effluent for sustainable hydrogen production. <i>Catalysis Today</i> , 2021, 367, 239-247.	2.2	24
9	Composite Cu-SSZ-13 and CeO ₂ -SnO ₂ for enhanced NH ₃ -SCR resistance towards hydrocarbon deactivation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119536.	10.8	25
10	How to make sustainable CO ₂ conversion to Methanol: Thermocatalytic versus electrocatalytic technology. <i>Chemical Engineering Journal</i> , 2021, 417, 127973.	6.6	57
11	Aqueous phase reforming of lignin-rich hydrothermal liquefaction by-products: A study on catalyst deactivation. <i>Catalysis Today</i> , 2021, 365, 206-213.	2.2	21
12	Dynamic modelling of methanation reactors during start-up and regulation in intermittent power-to-gas applications. <i>Renewable Energy</i> , 2021, 170, 1040-1051.	4.3	22
13	Catalytic Abatement of Volatile Organic Compounds and Soot over Manganese Oxide Catalysts. <i>Materials</i> , 2021, 14, 4534.	1.3	9
14	Aqueous phase reforming of sugar-based biorefinery streams: from the simplicity of model compounds to the complexity of real feeds. <i>Catalysis Today</i> , 2020, 345, 267-279.	2.2	28
15	Aqueous phase reforming of the residual waters derived from lignin-rich hydrothermal liquefaction: investigation of representative organic compounds and actual biorefinery streams. <i>Catalysis Today</i> , 2020, 345, 237-250.	2.2	39
16	Co-doped LaAlO ₃ perovskite oxide for NO _x -assisted soot oxidation. <i>Applied Catalysis A: General</i> , 2020, 589, 117304.	2.2	21
17	On-Filter Integration of Soot Oxidation and Selective Catalytic Reduction of NO _x with NH ₃ by Selective Two Component Catalysts. <i>Catalysis Letters</i> , 2020, 150, 573-585.	1.4	7
18	Impact of Power-to-Gas on distribution systems with large renewable energy penetration. <i>Energy Conversion and Management: X</i> , 2020, 7, 100053.	0.9	5

#	ARTICLE	IF	CITATIONS
19	New insights on the defect sites evolution during CO oxidation over doped ceria nanocatalysts probed by in situ Raman spectroscopy. <i>Applied Catalysis A: General</i> , 2020, 596, 117517.	2.2	19
20	SO ₂ deactivation mechanism of NO oxidation and regeneration of the LaCoO ₃ perovskite. <i>Catalysis Science and Technology</i> , 2020, 10, 2193-2202.	2.1	16
21	Insights on a Methanation Catalyst Aging Process: Aging Characterization and Kinetic Study. <i>Catalysts</i> , 2020, 10, 283.	1.6	13
22	Simultaneous improvement of ammonia mediated NOx SCR and soot oxidation for enhanced SCR-on-Filter application. <i>Applied Catalysis A: General</i> , 2020, 596, 117538.	2.2	19
23	Nanostructured Equimolar Ceria-Praseodymia for Total Oxidations in Low-O ₂ Conditions. <i>Catalysts</i> , 2020, 10, 165.	1.6	17
24	Heterogeneous mechanism of NOx-assisted soot oxidation in the passive regeneration of a bench-scale diesel particulate filter catalyzed with nanostructured equimolar ceria-praseodymia. <i>Applied Catalysis A: General</i> , 2019, 583, 117136.	2.2	25
25	In situ Raman analyses of the soot oxidation reaction over nanostructured ceria-based catalysts. <i>Scientific Reports</i> , 2019, 9, 3875.	1.6	85
26	Advances in Cleaning Mobile Emissions: NO-Assisted Soot Oxidation in Light-Duty Diesel Engine Vehicle Application. <i>Studies in Surface Science and Catalysis</i> , 2019, , 329-352.	1.5	1
27	Towards the sustainable hydrogen production by catalytic conversion of C-laden biorefinery aqueous streams. <i>Chemical Engineering Journal</i> , 2019, 377, 120677.	6.6	22
28	Novel Mn-Cu-Containing CeO ₂ Nanopolyhedra for the Oxidation of CO and Diesel Soot (Part II): Effect of Oxygen Concentration on the Catalytic Activity. <i>Catalysis Letters</i> , 2019, 149, 107-118.	1.4	10
29	Techno-economic modelling of a Power-to-Gas system based on SOEC electrolysis and CO ₂ methanation in a RES-based electric grid. <i>Chemical Engineering Journal</i> , 2019, 377, 120233.	6.6	93
30	Power-to-Gas through High Temperature Electrolysis and Carbon Dioxide Methanation: Reactor Design and Process Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4007-4018.	1.8	77
31	CO ₂ methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. <i>Fuel</i> , 2018, 225, 230-242.	3.4	69
32	Nanostructured equimolar ceria-praseodymia for NOx-assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 147-161.	10.8	66
33	Novel Mn-Cu-Containing CeO ₂ Nanopolyhedra for the Oxidation of CO and Diesel Soot: Effect of Dopants on the Nanostructure and Catalytic Activity. <i>Catalysis Letters</i> , 2018, 148, 298-311.	1.4	42
34	Valorization of alginate for the production of hydrogen via catalytic aqueous phase reforming. <i>Catalysis Today</i> , 2018, 304, 153-164.	2.2	16
35	Interesterification of rapeseed oil catalysed by a low surface area tin (II) oxide heterogeneous catalyst. <i>Fuel Processing Technology</i> , 2018, 177, 336-344.	3.7	19
36	Process Modeling of an Innovative Power to LNG Demonstration Plant. <i>Energy & Fuels</i> , 2018, 32, 8868-8879.	2.5	19

#	ARTICLE	IF	CITATIONS
37	Ceria-supported small Pt and Pt 3 Sn nanoparticles for NO _x -assisted soot oxidation. Applied Catalysis B: Environmental, 2017, 209, 295-310.	10.8	67
38	Pure and Fe-doped CeO ₂ nanoparticles obtained by microwave assisted combustion synthesis: Physico-chemical properties ruling their catalytic activity towards CO oxidation and soot combustion. Applied Catalysis B: Environmental, 2017, 211, 31-45.	10.8	73
39	CuO nanoparticles supported by ceria for NO _x -assisted soot oxidation: insight into catalytic activity and sintering. Applied Catalysis B: Environmental, 2017, 216, 41-58.	10.8	72
40	Cerium-copper oxides prepared by solution combustion synthesis for total oxidation reactions: From powder catalysts to structured reactors. Applied Catalysis B: Environmental, 2017, 205, 455-468.	10.8	104
41	Ceria-based nanomaterials as catalysts for CO oxidation and soot combustion: Effect of Zr-Pr doping and structural properties on the catalytic activity. AIChE Journal, 2017, 63, 216-225.	1.8	44
42	A simple model for a complex system: Kinetics of water oxidation with the [Ru(bpy) ₃] ²⁺ /S ₂ O ₈ ²⁻ photosystem as catalyzed by Mn ₂ O ₃ under different illumination conditions. Chemical Engineering Journal, 2017, 311, 143-152.	6.6	13
43	Simulation of NO _x and soot abatement with Cu-Cha and Fe-ZSM5 catalysts. AIChE Journal, 2017, 63, 238-248.	1.8	7
44	Investigation on the conversion of rapeseed oil via supercritical ethanol condition in the presence of a heterogeneous catalyst. Green Processing and Synthesis, 2017, 6, 91-101.	1.3	6
45	Catalytic Activity of Nanostructured Ceria-Based Materials Prepared by Different Synthesis Conditions. , 2017, , .		1
46	Nanostructured Ceria-Based Materials: Effect of the Hydrothermal Synthesis Conditions on the Structural Properties and Catalytic Activity. Catalysts, 2017, 7, 174.	1.6	32
47	Catalytic Oxidation of CO and Soot over Ce-Zr-Pr Mixed Oxides Synthesized in a Multi-Inlet Vortex Reactor: Effect of Structural Defects on the Catalytic Activity. Nanoscale Research Letters, 2016, 11, 494.	3.1	37
48	Study on the CO Oxidation over Ceria-Based Nanocatalysts. Nanoscale Research Letters, 2016, 11, 165.	3.1	57
49	CO and Soot Oxidation over Ce-Zr-Pr Oxide Catalysts. Nanoscale Research Letters, 2016, 11, 278.	3.1	43
50	Synthesis, Characterization, and Activity Pattern of Ni-Al Hydrotalcite Catalysts in CO ₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 8299-8308.	1.8	133
51	Contact dynamics for a solid-solid reaction mediated by gas-phase oxygen: Study on the soot oxidation over ceria-based catalysts. Applied Catalysis B: Environmental, 2016, 199, 96-107.	10.8	55
52	Catalytic Performance of γ -Al ₂ O ₃ -ZrO ₂ -TiO ₂ -CeO ₂ Composite Oxide Supported Ni-Based Catalysts for CO ₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 4451-4460.	1.8	117
53	Nanostructured ceria-zirconia catalysts for CO oxidation: Study on surface properties and reactivity. Applied Catalysis B: Environmental, 2016, 197, 35-46.	10.8	92
54	Nanostructured ceria-praseodymia catalysts for diesel soot combustion. Applied Catalysis B: Environmental, 2016, 197, 125-137.	10.8	95

#	ARTICLE	IF	CITATIONS
55	A review on the catalytic combustion of soot in Diesel particulate filters for automotive applications: From powder catalysts to structured reactors. <i>Applied Catalysis A: General</i> , 2016, 509, 75-96.	2.2	270
56	Green-synthesized W- and Mo-doped BiVO ₄ oriented along the {0 4 0} facet with enhanced activity for the sun-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 630-636.	10.8	156
57	Investigations into nanostructured ceria-zirconia catalysts for soot combustion. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 271-282.	10.8	134
58	Numerical Simulation of Single-Bubble Dynamics in High-Viscosity Ionic Liquids Using the Level-Set Method. <i>Chemical Engineering and Technology</i> , 2015, 38, 473-481.	0.9	13
59	Catalysis in Diesel engine NO _x aftertreatment: a review. <i>Journal of Lithic Studies</i> , 2015, 1, 155-173.	0.1	57
60	Effect of surface area on the rate of photocatalytic water oxidation as promoted by different manganese oxides. <i>Chemical Engineering Journal</i> , 2015, 278, 36-45.	6.6	15
61	Photo-catalytic activity of BiVO ₄ thin-film electrodes for solar-driven water splitting. <i>Applied Catalysis A: General</i> , 2015, 504, 266-271.	2.2	58
62	Development of a Photosynthetic Microbial Electrochemical Cell (PMEC) Reactor Coupled with Dark Fermentation of Organic Wastes: Medium Term Perspectives. <i>Energies</i> , 2015, 8, 399-429.	1.6	33
63	Nanostructured ceria-based catalysts for soot combustion: Investigations on the surface sensitivity. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 742-751.	10.8	234
64	Elucidation of important parameters of BiVO ₄ responsible for photo-catalytic O ₂ evolution and insights about the rate of the catalytic process. <i>Chemical Engineering Journal</i> , 2014, 245, 124-132.	6.6	63
65	Assessing the solar potential of roofs in Valparaíso (Chile). <i>Energy and Buildings</i> , 2014, 69, 62-73.	3.1	24
66	Influence on the performance and emissions of an automotive Euro 5 diesel engine fueled with F30 from Farnesane. <i>Fuel</i> , 2014, 138, 134-142.	3.4	48
67	Hazard assessment of W and Mo sulphide nanomaterials for automotive use. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	15
68	CeO ₂ -based catalysts with engineered morphologies for soot oxidation to enhance soot-catalyst contact. <i>Nanoscale Research Letters</i> , 2014, 9, 254.	3.1	65
69	A new method for studying activity and reaction kinetics of photocatalytic water oxidation systems using a bubbling reactor. <i>Chemical Engineering Journal</i> , 2014, 238, 17-26.	6.6	21
70	Process design accompanying life cycle management and risk analysis as a decision support tool for sustainable biodiesel production. <i>Green Chemistry</i> , 2013, 15, 463-477.	4.6	52
71	Supercritical fluid technology in biodiesel production: pilot plant design and operation. <i>Green Processing and Synthesis</i> , 2013, 2, .	1.3	4
72	Supercritical fluid technology in biodiesel production. <i>Green Processing and Synthesis</i> , 2013, 2, .	1.3	10

#	ARTICLE	IF	CITATIONS
73	Improved Soot Combustion in DPF Catalyzed by Ceria Nanofibers: The Importance of Soot-catalyst Contact. , 2013, , .		1
74	Enzymatic Hydrolysis of Lignocellulosic Biomasses via CFD and Experiments. Industrial & Engineering Chemistry Research, 2012, 51, 7518-7525.	1.8	20
75	Towards Artificial Leaves for Solar Hydrogen and Fuels from Carbon Dioxide. ChemSusChem, 2012, 5, 500-521.	3.6	203
76	Direct liquefaction of ligno-cellulosic residues for liquid fuel production. Fuel, 2012, 94, 324-332.	3.4	43
77	High efficiency Thermo-Electric power generator. International Journal of Hydrogen Energy, 2012, 37, 1385-1398.	3.8	37
78	Influence of the MgCo ₂ O ₄ Preparation Method on N ₂ O Catalytic Decomposition. Industrial & Engineering Chemistry Research, 2011, 50, 2622-2627.	1.8	41
79	Photocatalytic Degradation of Ethylene Emitted by Fruits with TiO ₂ Nanoparticles. Industrial & Engineering Chemistry Research, 2011, 50, 2536-2543.	1.8	78
80	Detailed Investigation on Soot Particle Size Distribution during DPF Regeneration, using Standard and Bio-Diesel Fuels. Industrial & Engineering Chemistry Research, 2011, 50, 2650-2658.	1.8	40
81	NO and C Oxidation with Pt Recovered From Spent Catalytic Converters. Waste and Biomass Valorization, 2010, 1, 235-239.	1.8	1
82	Numerical simulation of soot filtration and combustion within diesel particulate filters. Chemical Engineering Science, 2010, 65, 357-363.	1.9	95
83	Power and Hydrogen Co-generation from Biogas. Energy & Fuels, 2010, 24, 4743-4747.	2.5	18
84	Appraisal of a De-NO _x System Based on H ₂ for Light-Duty Diesel Engine Vehicles. Industrial & Engineering Chemistry Research, 2010, 49, 10323-10333.	1.8	19
85	Towards practical application of lanthanum ferrite catalysts for NO reduction with H ₂ . Chemical Engineering Journal, 2009, 154, 348-354.	6.6	24
86	Nano-Sized Additive Synthesis for Lubricant Oils and Compatibility Tests with After-Treatment Catalysts. , 0, , .		2
87	Ceria-zirconia Nanocatalysts for Diesel Soot Combustion. , 0, , .		0
88	Catalytic Oxidation of Soot and Volatile Organic Compounds over Cu and Fe Doped Manganese Oxides Prepared via Sol-Gel Synthesis. , 0, , .		1