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List of Publications by Year
in descending order

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Version: 2024-02-01

65 papers	1,725 citations	257450 24 h-index	315739 38 g-index
66 all docs	66 docs citations	66 times ranked	2082 citing authors

#	Article	IF	Citations
1	Hydrogen production by methanol steam reforming carried out in membrane reactor on Cu/Zn/Mg-based catalyst. Catalysis Today, 2008, 137, 17-22.	4.4	96
2	Sustainable production of pharmaceutical, nutraceutical and bioactive compounds from biomass and waste. Chemical Society Reviews, 2021, 50, 11191-11207.	38.1	94
3	Selective arene production from transfer hydrogenolysis of benzyl phenyl ether promoted by a co-precipitated Pd/Fe₃O₄ catalyst. Catalysis Science and Technology, 2016, 6, 7937-7941.	4.1	76
4	Wear behaviour of UHMWPE reinforced by carbon nanofiller and paraffin oil for joint replacement. Materials Science and Engineering C, 2017, 73, 234-244.	7.3	64
5	Nanostructured MnO x catalysts in the liquid phase selective oxidation of benzyl alcohol with oxygen: Part I. Effects of Ce and Fe addition on structure and reactivity. Applied Catalysis B: Environmental, 2015, 162, 260-267.	20.2	63
6	Graphene Quantum Dots by Eco-Friendly Green Synthesis for Electrochemical Sensing: Recent Advances and Future Perspectives. Nanomaterials, 2021, 11, 1120.	4.1	59
7	Catalytic Transfer Hydrogenolysis as an Effective Tool for the Reductive Upgrading of Cellulose, Hemicellulose, Lignin, and Their Derived Molecules. Catalysts, 2018, 8, 313.	3.5	58
8	Probing the functionality of nanostructured MnCeO x catalysts in the carbon monoxide oxidation. Applied Catalysis B: Environmental, 2017, 210, 14-22.	20.2	52
9	Non-enzymatic screen printed sensor based on Cu2O nanocubes for glucose determination in bio-fermentation processes. Journal of Electroanalytical Chemistry, 2020, 873, 114354.	3.8	52
10	In-situ grown flower-like nanostructured CuO on screen printed carbon electrodes for non-enzymatic amperometric sensing of glucose. Mikrochimica Acta, 2017, 184, 2375-2385.	5.0	48
11	Nonâ€enzymatic Glucose Sensor Based on Nickel/Carbon Composite. Electroanalysis, 2018, 30, 727-733.	2.9	48
12	Removal of heavy metal ions from wastewaters using dendrimer-functionalized multi-walled carbon nanotubes. Environmental Science and Pollution Research, 2017, 24, 14735-14747.	5.3	45
13	Hydrogenolysis of sorbitol into valuable C3-C2 alcohols at low H2 pressure promoted by the heterogeneous Pd/Fe3O4 catalyst. Molecular Catalysis, 2018, 446, 152-160.	2.0	43
14	Upgrading Lignocellulosic Biomasses: Hydrogenolysis of Platform Derived Molecules Promoted by Heterogeneous Pd-Fe Catalysts. Catalysts, 2017, 7, 78.	3.5	42
15	H2 production by methane decomposition: Catalytic and technological aspects. International Journal of Hydrogen Energy, 2012, 37, 16367-16374.	7.1	41
16	Recent Advances on Graphene Quantum Dots as Multifunctional Nanoplatforms for Cancer Treatment. Biotechnology Journal, 2021, 16, e1900422.	3.5	40
17	Smart Biosensors for Cancer Diagnosis Based on Graphene Quantum Dots. Cancers, 2021, 13, 3194.	3.7	39
18	Hydrogenolysis vs. aqueous phase reforming (APR) of glycerol promoted by a heterogeneous Pd/Fe catalyst. Catalysis Science and Technology, 2015, 5, 4466-4473.	4.1	37

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19	Methane decomposition over Co thin layer supported catalysts to produce hydrogen for fuel cell. International Journal of Hydrogen Energy, 2010, 35, 11568-11575.	7.1	36
20	Brassica biodiesels: Past, present and future. Renewable and Sustainable Energy Reviews, 2013, 18, 350-389.	16.4	36
21	Effect of Ethyl Ester L-Lysine Triisocyanate addition to produce reactive PLA/PCL bio-polyester blends for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 308-317.	3.1	32
22	Effect of Sn doping on microstructural and optical properties of ZnO nanoparticles synthesized by microwave irradiation method. Journal of Materials Science, 2014, 49, 1776-1784.	3.7	27
23	Current trends on turning biomass wastes into carbon materials for electrochemical sensing and rechargeable battery applications. Current Opinion in Green and Sustainable Chemistry, 2020, 26, 100374.	5.9	27
24	Probing the functionality of nanostructured MnCeOx catalysts in the carbon monoxide oxidation. Applied Catalysis B: Environmental, 2017, 218, 803-809.	20.2	25
25	Bioethanol Production from Unpretreated Cellulose under Neutral Selfsustainable Hydrolysis/Hydrogenolysis Conditions Promoted by the Heterogeneous Pd/Fe₃O₄ Catalyst. ACS Omega, 2019, 4, 352-357.	3.5	25
26	Photo-electrochemical properties of CuOâ€“TiO₂ heterojunctions for glucose sensing. Journal of Materials Chemistry C, 2020, 8, 9529-9539.	5.5	25
27	Orange peels-derived hydrochar for chemical sensing applications. Sensors and Actuators B: Chemical, 2021, 341, 130016.	7.8	25
28	Electrochemical and Fluorescent Properties of Crown Ether Functionalized Graphene Quantum Dots for Potassium and Sodium Ions Detection. Nanomaterials, 2021, 11, 2897.	4.1	25
29	Tribological Behavior of Nanocomposites Based on UHMWPE Aged in Simulated Synovial Fluid. Polymers, 2018, 10, 1291.	4.5	23
30	Re-thinking organic synthesis: Mechanochemistry as a greener approach. Current Opinion in Green and Sustainable Chemistry, 2021, 30, 100478.	5.9	23
31	High performance Gd-doped Î³-Fe2O3 based acetone sensor. Materials Science in Semiconductor Processing, 2020, 116, 105154.	4.0	22
32	MgNi2O3 nanoparticles as novel and versatile sensing material for non-enzymatic electrochemical sensing of glucose and conductometric determination of acetone. Journal of Alloys and Compounds, 2020, 817, 152787.	5.5	21
33	Hydrothermal Carbonization as Sustainable Process for the Complete Upgrading of Orange Peel Waste into Value-Added Chemicals and Bio-Carbon Materials. Applied Sciences (Switzerland), 2021, 11, 10983.	2.5	20
34	CH4 decomposition on Ni and Co thin layer catalysts to produce H2 for fuel cell. Catalysis Today, 2011, 171, 60-66.	4.4	19
35	A novel yttria-doped ZrO2 based conductometric sensor for hydrogen leak monitoring. International Journal of Hydrogen Energy, 2022, 47, 9819-9828.	7.1	19
36	On the Electroanalytical Detection of Zn Ions by a Novel Schiff Base Ligand-SPCE Sensor. Sensors, 2022, 22, 900.	3.8	19

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37	Titanium Surface Modification for Implantable Medical Devices with Anti-Bacterial Adhesion Properties. Materials, 2022, 15, 3283.	2.9	19
38	Catalytic decomposition of natural gas for COx-free hydrogen production in a structured multilayer reactor. Applied Catalysis A: General, 2009, 357, 58-65.	4.3	18
39	Polyester resin and carbon nanotubes based nanocomposite as new-generation coating to prevent biofilm formation. International Journal of Polymer Analysis and Characterization, 2016, 21, 327-336.	1.9	18
40	Tethering of Gly-Arg-Gly-Asp-Ser-Pro-Lys Peptides on Mg-Doped Hydroxyapatite. Engineering, 2017, 3, 55-59.	6.7	17
41	A definitive assessment of the CO oxidation pattern of a nanocomposite MnCeO_x catalyst. Reaction Chemistry and Engineering, 2018, 3, 293-300.	3.7	17
42	NdFeO3 as a new electrocatalytic material for the electrochemical monitoring of dopamine. Analytical and Bioanalytical Chemistry, 2019, 411, 7681-7688.	3.7	17
43	Selective oxidation of propane on Nafion/PEEK-WC catalytic membranes in a multifunctional reaction system. Catalysis Today, 2006, 118, 253-258.	4.4	16
44	Doped Ni Thin Layer Catalysts for Catalytic Decomposition of Natural Gas to produce hydrogen. Applied Catalysis A: General, 2009, 365, 122-129.	4.3	16
45	Nanostructured Nickel on Porous Carbon-Silica Matrix as an Efficient Electrocatalytic Material for a Non-Enzymatic Glucose Sensor. Chemosensors, 2018, 6, 54.	3.6	16
46	Selective oxidation of propane on a Nafion-based catalytic membrane mediated by Fellâ€“H2O2 Fenton system. Journal of Molecular Catalysis A, 2000, 159, 359-364.	4.8	12
47	Catalytic Features of Mg Modified Ni/SiO2/Silica Cloth Systems in the Decomposition of Methane for Making â€œCO x -Freeâ€•H2. Catalysis Letters, 2008, 124, 7-12.	2.6	12
48	On the potential of the multifunctional three phase catalytic membrane reactor in the selective oxidation of light alkanes by Fe2+â€“H2O2 Fenton system. Catalysis Today, 2001, 67, 247-256.	4.4	11
49	A New Class of MnCeOx Materials for the Catalytic Gas Exhausts Emission Control: A Study of the CO Model Compound Oxidation. Topics in Catalysis, 2019, 62, 259-265.	2.8	10
50	The Limonene Biorefinery: From Extractive Technologies to Its Catalytic Upgrading into p-Cymene. Catalysts, 2021, 11, 387.	3.5	10
51	Partial oxidation of propane on Nafion supported catalytic membranes. Catalysis Today, 2000, 61, 37-41.	4.4	9
52	Factors affecting the efficiency of Nafion-based catalytic membranes in the selective oxidation of light paraffins mediated by the Fenton system. Catalysis Today, 2004, 91-92, 215-218.	4.4	9
53	On the formation of cinnamyl alcohol during the hydrogenation of cinnamaldehyde under mild conditions on supported palladium catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2016, 118, 223-233.	1.7	8
54	Ni Thin Layer Catalysts for Making H2 â€œCOx-Freeâ€•by Decomposition of Natural Gas in a Structured Multilayer Reactor. Studies in Surface Science and Catalysis, 2006, , 633-640.	1.5	7

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55	Innovative Membrane-Based Catalytic Process for Environmentally Friendly Synthesis of Oxygenates. Topics in Catalysis, 2003, 22, 65-70.	2.8	6
56	Selective oxidation of CO in hydrogen atmosphere on Ptâ€“Fe catalysts supported on zeolite P-based materials. Journal of Porous Materials, 2014, 21, 623-631.	2.6	6
57	Innovative membrane based process for the selective oxidation of light alkanes assisted by the Fenton system. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 66-72.	1.5	5
58	Catalytic Processes for The Valorization of Biomass Derived Molecules. Catalysts, 2019, 9, 674.	3.5	4
59	Efficient and stable titania-based nanocatalytic materials for the reductive amination of furfural. Materials Today Chemistry, 2022, 24, 100873.	3.5	4
60	Glycerol Valorization towards a Benzoxazine Derivative through a Milling and Microwave Sequential Strategy. Molecules, 2022, 27, 632.	3.8	3
61	Partial Oxidation of Light Paraffins on Supported Superacid Catalytic Membranes. Studies in Surface Science and Catalysis, 1998, 119, 447-452.	1.5	2
62	Enhancing effect of S and F moieties on the performance of Fenton system in the selective oxidation of propane. Catalysis Today, 2009, 141, 306-310.	4.4	2
63	Mechanochemical Preparation of Magnetically Separable Fe and Cu-Based Bimetallic Nanocatalysts for Vanillin Production. Nanomaterials, 2021, 11, 1050.	4.1	2
64	Physical - mechanical characterization of poly(lactide)/poly (Îµ-caprolactone) blends with ethyl ester L-lysine triisocyanate as reactive agent. AIP Conference Proceedings, 2016, , .	0.4	0
65	Photochemical Activation of Non-enzymatic Sensors Based on Cu/TiO2. Lecture Notes in Electrical Engineering, 2020, , 195-200.	0.4	0