Eranda Nikolla

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reactivity of Pd–MO ₂ encapsulated catalytic systems for CO oxidation. Catalysis Science and Technology, 2022, 12, 1476-1486.	4.1	7
2	Elucidating the Role of B-Site Cations toward CO ₂ Reduction in Perovskite-Based Solid Oxide Electrolysis Cells. Journal of the Electrochemical Society, 2022, 169, 034532.	2.9	8
3	Supported Bifunctional Molybdenum Oxide-Palladium Catalysts for Selective Hydrodeoxygenation of Biomass-Derived Polyols and 1,4-Anhydroerythritol. ACS Sustainable Chemistry and Engineering, 2022, 10, 5719-5727.	6.7	12
4	Selective Câ^'O Bond Cleavage of Bioâ€Based Organic Acids over Palladium Promoted MoO x /TiO 2. ChemCatChem, 2021, 13, 1294-1298.	3.7	4
5	Aprotic Alkali Metal–O ₂ Batteries: Role of Cathode Surface-Mediated Processes and Heterogeneous Electrocatalysis. ACS Energy Letters, 2021, 6, 665-674.	17.4	8
6	Modulating Catalytic Properties of Targeted Metal Cationic Centers in Nonstochiometric Mixed Metal Oxides for Electrochemical Oxygen Reduction. ACS Energy Letters, 2021, 6, 1065-1072.	17.4	10
7	Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO2 sensing. Nature Communications, 2021, 12, 4895.	12.8	40
8	Dynamic Surface Reconstruction Unifies the Electrocatalytic Oxygen Evolution Performance of Nonstoichiometric Mixed Metal Oxides. Jacs Au, 2021, 1, 2224-2241.	7.9	23
9	Embracing the Complexity of Catalytic Structures: A Viewpoint on the Synthesis of Nonstoichiometric Mixed Metal Oxides for Catalysis. ACS Catalysis, 2020, 10, 516-527.	11.2	14
10	Electrochemical Reduction of CO ₂ on Metal-Based Cathode Electrocatalysts of Solid Oxide Electrolysis Cells. Industrial & Engineering Chemistry Research, 2020, 59, 15884-15893.	3.7	17
11	Oxygen evolution electrocatalysis using mixed metal oxides under acidic conditions: Challenges and opportunities. Journal of Catalysis, 2020, 388, 130-140.	6.2	59
12	Tunable Catalytic Performance of Palladium Nanoparticles for H ₂ O ₂ Direct Synthesis via Surface-Bound Ligands. ACS Catalysis, 2020, 10, 5202-5207.	11.2	39
13	Nonprecious Metal Catalysts for Tuning Discharge Product Distribution at Solid–Solid Interfaces of Aprotic Li–O ₂ Batteries. Chemistry of Materials, 2019, 31, 7300-7310.	6.7	25
14	Reaction paths for hydrodeoxygenation of furfuryl alcohol at TiO2/Pd interfaces. Journal of Catalysis, 2019, 377, 28-40.	6.2	17
15	Design Strategies for Efficient Nonstoichiometric Mixed Metal Oxide Electrocatalysts: Correlating Measurable Oxide Properties to Electrocatalytic Performance. ACS Catalysis, 2019, 9, 10575-10586.	11.2	28
16	Electrochemical Conversion of Biomass-Based Oxygenated Compounds. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 85-104.	6.8	55
17	Nanoengineering of solid oxide electrochemical cell technologies: An outlook. Nano Research, 2019, 12, 2081-2092.	10.4	19
18	<i>110th Anniversary:</i> Fabrication of Inverted Pd@TiO ₂ Nanostructures for Selective Catalysis. Industrial & amp; Engineering Chemistry Research, 2019, 58, 4032-4041.	3.7	4

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19	Electrochemical oxygen reduction on layered mixed metal oxides: Effect of B-site substitution. Journal of Electroanalytical Chemistry, 2019, 833, 490-497.	3.8	17
20	Multicomponent Catalysts: Limitations and Prospects. ACS Catalysis, 2018, 8, 3202-3208.	11.2	64
21	Oxygen Sponges for Electrocatalysis: Oxygen Reduction/Evolution on Nonstoichiometric, Mixed Metal Oxides. Chemistry of Materials, 2018, 30, 2860-2872.	6.7	56
22	Control of interfacial acid–metal catalysis with organic monolayers. Nature Catalysis, 2018, 1, 148-155.	34.4	74
23	Efficient Oxygen Electrocatalysis by Nanostructured Mixed-Metal Oxides. Journal of the American Chemical Society, 2018, 140, 8128-8137.	13.7	49
24	Optimizing cathode materials for intermediate-temperature solid oxide fuel cells (SOFCs): Oxygen reduction on nanostructured lanthanum nickelate oxides. Applied Catalysis B: Environmental, 2017, 200, 106-113.	20.2	41
25	Advances in methane conversion processes. Catalysis Today, 2017, 285, 147-158.	4.4	207
26	First-Principles Study of High Temperature CO ₂ Electrolysis on Transition Metal Electrocatalysts. Industrial & amp; Engineering Chemistry Research, 2017, 56, 6155-6163.	3.7	16
27	Directing Reaction Pathways through Controlled Reactant Binding at Pd–TiO 2 Interfaces. Angewandte Chemie, 2017, 129, 6694-6698.	2.0	22
28	Directing Reaction Pathways through Controlled Reactant Binding at Pd–TiO ₂ Interfaces. Angewandte Chemie - International Edition, 2017, 56, 6594-6598.	13.8	60
29	Design of Ruddlesden–Popper Oxides with Optimal Surface Oxygen Exchange Properties for Oxygen Reduction and Evolution. ACS Catalysis, 2017, 7, 5912-5920.	11.2	32
30	Well-Defined Nanostructures for Catalysis by Atomic Layer Deposition. Studies in Surface Science and Catalysis, 2017, 177, 643-676.	1.5	9
31	Electro- and thermal-catalysis by layered, first series Ruddlesden-Popper oxides. Catalysis Today, 2016, 277, 214-226.	4.4	34
32	Engineering Complex, Layered Metal Oxides: High-Performance Nickelate Oxide Nanostructures for Oxygen Exchange and Reduction. ACS Catalysis, 2015, 5, 4013-4019.	11.2	30
33	Fundamental Insights into High-Temperature Water Electrolysis Using Ni-Based Electrocatalysts. Journal of Physical Chemistry C, 2015, 119, 26980-26988.	3.1	26
34	Hydropyrolysis of Lignin Using Pd/HZSM-5. Energy & Fuels, 2015, 29, 1793-1800.	5.1	100
35	Nanostructured Nickelate Oxides as Efficient and Stable Cathode Electrocatalysts for Li–O2 Batteries. Topics in Catalysis, 2015, 58, 513-521.	2.8	12
36	Synthesis of shape-controlled La ₂ NiO _{4+δ} nanostructures and their anisotropic properties for oxygen diffusion. Chemical Communications, 2015, 51, 137-140.	4.1	26

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37	Molybdenum-Based Polyoxometalates as Highly Active and Selective Catalysts for the Epimerization of Aldoses. ACS Catalysis, 2014, 4, 1358-1364.	11.2	66
38	Identifying optimal active sites for heterogeneous catalysis by metal alloys based on molecular descriptors and electronic structure engineering. Current Opinion in Chemical Engineering, 2013, 2, 312-319.	7.8	54
39	Metalloenzyme-like catalyzed isomerizations of sugars by Lewis acid zeolites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9727-9732.	7.1	354
40	Electronic Structure Engineering in Heterogeneous Catalysis: Identifying Novel Alloy Catalysts Based on Rapid Screening for Materials with Desired Electronic Properties. Topics in Catalysis, 2012, 55, 376-390.	2.8	80
41	"One-Pot―Synthesis of 5-(Hydroxymethyl)furfural from Carbohydrates using Tin-Beta Zeolite. ACS Catalysis, 2011, 1, 408-410.	11.2	607
42	Establishing Relationships Between the Geometric Structure and Chemical Reactivity of Alloy Catalysts Based on Their Measured Electronic Structure. Topics in Catalysis, 2010, 53, 348-356.	2.8	60
43	Communications: Developing relationships between the local chemical reactivity of alloy catalysts and physical characteristics of constituent metal elements. Journal of Chemical Physics, 2010, 132, 111101.	3.0	13
44	From Molecular Insights to Novel Catalysts Formulation. , 2010, , 275-292.		1
45	Direct Electrochemical Oxidation of Hydrocarbon Fuels on SOFCs: Improved Carbon Tolerance of Ni Alloy Anodes. Journal of the Electrochemical Society, 2009, 156, B1312.	2.9	66
46	Comparative study of the kinetics of methane steam reforming on supported Ni and Sn/Ni alloy catalysts: The impact of the formation of Ni alloy on chemistry. Journal of Catalysis, 2009, 263, 220-227.	6.2	151
47	Measuring and Relating the Electronic Structures of Nonmodel Supported Catalytic Materials to Their Performance. Journal of the American Chemical Society, 2009, 131, 2747-2754.	13.7	102
48	Hydrocarbon steam reforming on Ni alloys at solid oxide fuel cell operating conditions. Catalysis Today, 2008, 136, 243-248.	4.4	71
49	Promotion of the long-term stability of reforming Ni catalysts by surface alloying. Journal of Catalysis, 2007, 250, 85-93.	6.2	205
50	Controlling Carbon Surface Chemistry by Alloying:Â Carbon Tolerant Reforming Catalyst. Journal of the American Chemical Society, 2006, 128, 11354-11355.	13.7	172
51	Hydrogen bonding. Part 83. The bis-troponehydrogen cation: preparation, IR, and MO study of a proton bridged dimer of tropone with a covalent three-center OHO bond. Journal of Molecular Structure, 2004, 691, 211-216.	3.6	2
52	lonic organoboranes. Part 9. Ab initio molecular orbital study of energy, structure, and frontier orbitals of the isomeric [7.7.10x,y]ousenes. Journal of Molecular Structure, 2003, 655, 251-257.	3.6	0
53	Hydrogen bonding. Part 82. Thermodynamic and infrared study of dimethonium and pentamethonium halide dihydrates. Journal of Molecular Structure, 2003, 657, 117-123.	3.6	4
54	Hydrogen bonding. Part 80. Molecular orbital evaluation of C–H hydrogen bonding in tetramethylammonium tetrahydroborate. Journal of Molecular Structure, 2002, 616, 181-186.	3.6	0

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55	Heterogeneous electrocatalysts for CO2 reduction. Catalysis, 0, , 94-121.	1.0	2