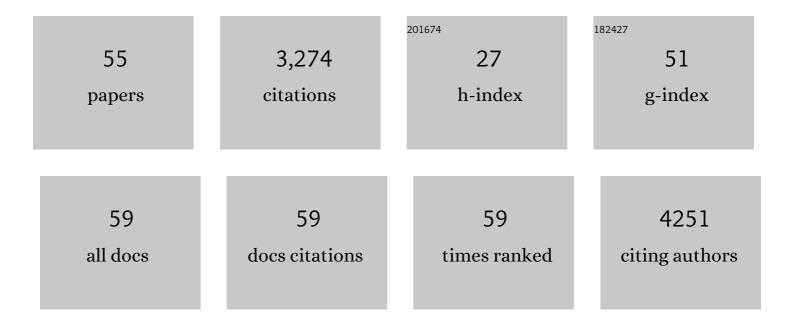
Eranda Nikolla

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | "One-Pot―Synthesis of 5-(Hydroxymethyl)furfural from Carbohydrates using Tin-Beta Zeolite. ACS Catalysis, 2011, 1, 408-410. | 11.2 | 607 |
| 2 | 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 |
| 3 | Advances in methane conversion processes. Catalysis Today, 2017, 285, 147-158. | 4.4 | 207 |
| 4 | Promotion of the long-term stability of reforming Ni catalysts by surface alloying. Journal of Catalysis, 2007, 250, 85-93. | 6.2 | 205 |
| 5 | Controlling Carbon Surface Chemistry by Alloying:Â Carbon Tolerant Reforming Catalyst. Journal of the American Chemical Society, 2006, 128, 11354-11355. | 13.7 | 172 |
| 6 | 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 |
| 7 | 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 |
| 8 | Hydropyrolysis of Lignin Using Pd/HZSM-5. Energy & Fuels, 2015, 29, 1793-1800. | 5.1 | 100 |
| 9 | 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 |
| 10 | Control of interfacial acid–metal catalysis with organic monolayers. Nature Catalysis, 2018, 1, 148-155. | 34.4 | 74 |
| 11 | Hydrocarbon steam reforming on Ni alloys at solid oxide fuel cell operating conditions. Catalysis Today, 2008, 136, 243-248. | 4.4 | 71 |
| 12 | 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 |
| 13 | Molybdenum-Based Polyoxometalates as Highly Active and Selective Catalysts for the Epimerization of Aldoses. ACS Catalysis, 2014, 4, 1358-1364. | 11.2 | 66 |
| 14 | Multicomponent Catalysts: Limitations and Prospects. ACS Catalysis, 2018, 8, 3202-3208. | 11.2 | 64 |
| 15 | 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 |
| 16 | Directing Reaction Pathways through Controlled Reactant Binding at Pd–TiO ₂ Interfaces. Angewandte Chemie - International Edition, 2017, 56, 6594-6598. | 13.8 | 60 |
| 17 | Oxygen evolution electrocatalysis using mixed metal oxides under acidic conditions: Challenges and opportunities. Journal of Catalysis, 2020, 388, 130-140. | 6.2 | 59 |
| 18 | Oxygen Sponges for Electrocatalysis: Oxygen Reduction/Evolution on Nonstoichiometric, Mixed Metal Oxides. Chemistry of Materials, 2018, 30, 2860-2872. | 6.7 | 56 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Electrochemical Conversion of Biomass-Based Oxygenated Compounds. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 85-104. | 6.8 | 55 |
| 20 | 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 |
| 21 | Efficient Oxygen Electrocatalysis by Nanostructured Mixed-Metal Oxides. Journal of the American Chemical Society, 2018, 140, 8128-8137. | 13.7 | 49 |
| 22 | 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 |
| 23 | Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO2 sensing. Nature Communications, 2021, 12, 4895. | 12.8 | 40 |
| 24 | 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 |
| 25 | Electro- and thermal-catalysis by layered, first series Ruddlesden-Popper oxides. Catalysis Today, 2016, 277, 214-226. | 4.4 | 34 |
| 26 | 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 |
| 27 | Engineering Complex, Layered Metal Oxides: High-Performance Nickelate Oxide Nanostructures for Oxygen Exchange and Reduction. ACS Catalysis, 2015, 5, 4013-4019. | 11.2 | 30 |
| 28 | 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 |
| 29 | Fundamental Insights into High-Temperature Water Electrolysis Using Ni-Based Electrocatalysts. Journal of Physical Chemistry C, 2015, 119, 26980-26988. | 3.1 | 26 |
| 30 | Synthesis of shape-controlled La ₂ NiO _{4+Î′} nanostructures and their anisotropic properties for oxygen diffusion. Chemical Communications, 2015, 51, 137-140. | 4.1 | 26 |
| 31 | 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 |
| 32 | Dynamic Surface Reconstruction Unifies the Electrocatalytic Oxygen Evolution Performance of Nonstoichiometric Mixed Metal Oxides. Jacs Au, 2021, 1, 2224-2241. | 7.9 | 23 |
| 33 | Directing Reaction Pathways through Controlled Reactant Binding at Pd–TiO 2 Interfaces. Angewandte Chemie, 2017, 129, 6694-6698. | 2.0 | 22 |
| 34 | Nanoengineering of solid oxide electrochemical cell technologies: An outlook. Nano Research, 2019, 12, 2081-2092. | 10.4 | 19 |
| 35 | Reaction paths for hydrodeoxygenation of furfuryl alcohol at TiO2/Pd interfaces. Journal of Catalysis, 2019, 377, 28-40. | 6.2 | 17 |
| 36 | Electrochemical oxygen reduction on layered mixed metal oxides: Effect of B-site substitution. Journal of Electroanalytical Chemistry, 2019, 833, 490-497. | 3.8 | 17 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Nanostructured Nickelate Oxides as Efficient and Stable Cathode Electrocatalysts for Li–O2 Batteries. Topics in Catalysis, 2015, 58, 513-521. | 2.8 | 12 |
| 42 | 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 |
| 43 | 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 |
| 44 | Well-Defined Nanostructures for Catalysis by Atomic Layer Deposition. Studies in Surface Science and Catalysis, 2017, 177, 643-676. | 1.5 | 9 |
| 45 | 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 |
| 46 | 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 |
| 47 | Reactivity of Pd–MO ₂ encapsulated catalytic systems for CO oxidation. Catalysis Science and Technology, 2022, 12, 1476-1486. | 4.1 | 7 |
| 48 | 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 |
| 49 | <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 |
| 50 | 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 |
| 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 | Heterogeneous electrocatalysts for CO2 reduction. Catalysis, 0, , 94-121. | 1.0 | 2 |
| 53 | From Molecular Insights to Novel Catalysts Formulation. , 2010, , 275-292. | | 1 |
| 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 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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 |