

Suljo Linic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

13,710
citations

43
h-index

82
g-index

82
ext. papers

15,478
ext. citations

13.3
avg, IF

7.25
L-index

#	Paper	IF	Citations
76	Interpretable machine learning for knowledge generation in heterogeneous catalysis. <i>Nature Catalysis</i> , 2022 , 5, 175-184	36.5	10
75	Optimizing Molecular Light Absorption in the Strong Coupling Regime for Solar Energy Harvesting. <i>Nano Energy</i> , 2022 , 107244	17.1	0
74	Design Principles for Efficient and Stable Water Splitting Photoelectrocatalysts. <i>Accounts of Chemical Research</i> , 2021 , 54, 1992-2002	24.3	18
73	In-operando surface-sensitive probing of electrochemical reactions on nanoparticle electrocatalysts: Spectroscopic characterization of reaction intermediates and elementary steps of oxygen reduction reaction on Pt. <i>Journal of Catalysis</i> , 2021 , 396, 32-39	7.3	7
72	Plasma-driven solution electrolysis. <i>Journal of Applied Physics</i> , 2021 , 129, 200902	2.5	13
71	Stable and selective catalysts for propane dehydrogenation operating at thermodynamic limit. <i>Science</i> , 2021 , 373, 217-222	33.3	38
70	Flow and extraction of energy and charge carriers in hybrid plasmonic nanostructures. <i>Nature Materials</i> , 2021 , 20, 916-924	27	66
69	Microkinetic modeling in electrocatalysis: Applications, limitations, and recommendations for reliable mechanistic insights. <i>Journal of Catalysis</i> , 2021 , 404, 864-864	7.3	4
68	Uncovering electronic and geometric descriptors of chemical activity for metal alloys and oxides using unsupervised machine learning. <i>Chem Catalysis</i> , 2021 , 1, 923-940		4
67	Quantifying Losses and Assessing the Photovoltage Limits in Metal/Insulator/Semiconductor Water Splitting Systems. <i>Advanced Energy Materials</i> , 2020 , 10, 1903354	21.8	15
66	Theory-Guided Machine Learning Finds Geometric Structure-Property Relationships for Chemisorption on Subsurface Alloys. <i>Chem</i> , 2020 , 6, 3100-3117	16.2	27
65	Critical Practices in Rigorously Assessing the Inherent Activity of Nanoparticle Electrocatalysts. <i>ACS Catalysis</i> , 2020 , 10, 10735-10741	13.1	9
64	Unearthing the factors governing site specific rates of electronic excitations in multicomponent plasmonic systems and catalysts. <i>Faraday Discussions</i> , 2019 , 214, 441-453	3.6	20
63	Oxidative Coupling of Methane over Hybrid Membrane/Catalyst Active Centers: Chemical Requirements for Prolonged Lifetime. <i>ACS Energy Letters</i> , 2019 , 4, 1465-1470	20.1	10
62	Guidelines for Optimizing the Performance of Metal/Insulator/Semiconductor (MIS) Photoelectrocatalytic Systems by Tuning the Insulator Thickness. <i>ACS Energy Letters</i> , 2019 , 4, 2632-2638	20.1	12
61	Chemical Requirement for Extracting Energetic Charge Carriers from Plasmonic Metal Nanoparticles to Perform Electron-Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 643-647	16.4	74
60	Recent Developments in Nitrogen Reduction Catalysts: A Virtual Issue. <i>ACS Energy Letters</i> , 2019 , 4, 163-166	16.1	68

59	In search of membrane-catalyst materials for oxidative coupling of methane: Performance and phase stability studies of gadolinium-doped barium cerate and the impact of Zr doping. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 29-35	21.8	25
58	Multicomponent Catalysts: Limitations and Prospects. <i>ACS Catalysis</i> , 2018 , 8, 3202-3208	13.1	45
57	Maximizing Solar Water Splitting Performance by Nanoscopic Control of the Charge Carrier Fluxes across Semiconductor Electrolyte Junctions. <i>ACS Catalysis</i> , 2018 , 8, 8545-8552	13.1	23
56	Design Principles for Directing Energy and Energetic Charge Flow in Multicomponent Plasmonic Nanostructures. <i>ACS Energy Letters</i> , 2018 , 3, 1590-1596	20.1	76
55	Modeling the Impact of Metallic Plasmonic Resonators on the Solar Conversion Efficiencies of Semiconductor Photoelectrodes: When Does Introducing Buried Plasmonic Nanostructures Make Sense?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24279-24286	3.8	4
54	Catalytic conversion of solar to chemical energy on plasmonic metal nanostructures. <i>Nature Catalysis</i> , 2018 , 1, 656-665	36.5	362
53	Pitfalls and best practices in measurements of the electrochemical surface area of platinum-based nanostructured electro-catalysts. <i>Journal of Catalysis</i> , 2017 , 345, 1-10	7.3	38
52	Engineering the Optical and Catalytic Properties of Co-Catalyst/Semiconductor Photocatalysts. <i>ACS Photonics</i> , 2017 , 4, 979-985	6.3	21
51	Controlling energy flow in multimetallic nanostructures for plasmonic catalysis. <i>Nature Nanotechnology</i> , 2017 , 12, 1000-1005	28.7	271
50	Addressing Challenges and Scalability in the Synthesis of Thin Uniform Metal Shells on Large Metal Nanoparticle Cores: Case Study of Ag-Pt Core-Shell Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43127-43132	9.5	23
49	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. <i>ACS Catalysis</i> , 2017 , 7, 17-24	13.1	37
48	Kinetic Trapping of Immiscible Metal Atoms into Bimetallic Nanoparticles through Plasmonic Visible Light-Mediated Reduction of a Bimetallic Oxide Precursor: Case Study of AgPt Nanoparticle Synthesis. <i>Chemistry of Materials</i> , 2016 , 28, 8289-8295	9.6	23
47	Mechanism of Charge Transfer from Plasmonic Nanostructures to Chemically Attached Materials. <i>ACS Nano</i> , 2016 , 10, 6108-15	16.7	242
46	A Viewpoint on Direct Methane Conversion to Ethane and Ethylene Using Oxidative Coupling on Solid Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 4340-4346	13.1	138
45	Evidence and implications of direct charge excitation as the dominant mechanism in plasmon-mediated photocatalysis. <i>Nature Communications</i> , 2016 , 7, 10545	17.4	291
44	Oxidative coupling of methane over mixed oxide catalysts designed for solid oxide membrane reactors. <i>Catalysis Science and Technology</i> , 2016 , 6, 4370-4376	5.5	27
43	Direct electrochemical oxidation of ethanol on SOFCs: Improved carbon tolerance of Ni anode by alloying. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 386-393	21.8	39
42	Analyzing relationships between surface perturbations and local chemical reactivity of metal sites: Alkali promotion of O ₂ dissociation on Ag(111). <i>Journal of Chemical Physics</i> , 2016 , 144, 234704	3.9	10

41	Electrochemical Oxygen Reduction Reaction on Ag Nanoparticles of Different Shapes. <i>ChemCatChem</i> , 2016 , 8, 256-261	5.2	45
40	Photochemical transformations on plasmonic metal nanoparticles. <i>Nature Materials</i> , 2015 , 14, 567-76	27	1023
39	High-performance Ag-Co alloy catalysts for electrochemical oxygen reduction. <i>Nature Chemistry</i> , 2014 , 6, 828-34	17.6	331
38	Deactivation of Pt Catalysts during Hydrothermal Decarboxylation of Butyric Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2399-2406	8.3	23
37	Identifying optimal active sites for heterogeneous catalysis by metal alloys based on molecular descriptors and electronic structure engineering. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 312-319	5.4	49
36	Tuning selectivity in propylene epoxidation by plasmon mediated photo-switching of Cu oxidation state. <i>Science</i> , 2013 , 339, 1590-3	33.3	448
35	Hydrothermal catalytic production of fuels and chemicals from aquatic biomass. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 13-24	3.5	139
34	Catalytic and photocatalytic transformations on metal nanoparticles with targeted geometric and plasmonic properties. <i>Accounts of Chemical Research</i> , 2013 , 46, 1890-9	24.3	213
33	Predictive Structure-Reactivity Models for Rapid Screening of Pt-Based Multimetallic Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012 , 2, 12-16	13.1	102
32	Singular characteristics and unique chemical bond activation mechanisms of photocatalytic reactions on plasmonic nanostructures. <i>Nature Materials</i> , 2012 , 11, 1044-50	27	590
31	Elementary Mechanisms in Electrocatalysis: Revisiting the ORR Tafel Slope. <i>Journal of the Electrochemical Society</i> , 2012 , 159, H864-H870	3.9	207
30	Design of Plasmonic Platforms for Selective Molecular Sensing Based on Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9824-9829	3.8	19
29	Electronic Structure Engineering in Heterogeneous Catalysis: Identifying Novel Alloy Catalysts Based on Rapid Screening for Materials with Desired Electronic Properties. <i>Topics in Catalysis</i> , 2012 , 55, 376-390	2.3	69
28	Predictive Model for the Design of Plasmonic Metal/Semiconductor Composite Photocatalysts. <i>ACS Catalysis</i> , 2011 , 1, 1441-1447	13.1	241
27	Water splitting on composite plasmonic-metal/semiconductor photoelectrodes: evidence for selective plasmon-induced formation of charge carriers near the semiconductor surface. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5202-5	16.4	700
26	Visible-light-enhanced catalytic oxidation reactions on plasmonic silver nanostructures. <i>Nature Chemistry</i> , 2011 , 3, 467-72	17.6	1390
25	Plasmonic-metal nanostructures for efficient conversion of solar to chemical energy. <i>Nature Materials</i> , 2011 , 10, 911-21	27	3569
24	Communications: Exceptions to the d-band model of chemisorption on metal surfaces: The dominant role of repulsion between adsorbate states and metal d-states. <i>Journal of Chemical Physics</i> , 2010 , 132, 221101	3.9	161

23	Communications: Developing relationships between the local chemical reactivity of alloy catalysts and physical characteristics of constituent metal elements. <i>Journal of Chemical Physics</i> , 2010 , 132, 11110-11119	3.9	11
22	Enhancing Photochemical Activity of Semiconductor Nanoparticles with Optically Active Ag Nanostructures: Photochemistry Mediated by Ag Surface Plasmons. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9173-9177	3.8	279
21	Shape- and Size-Specific Chemistry of Ag Nanostructures in Catalytic Ethylene Epoxidation. <i>ChemCatChem</i> , 2010 , 2, 78-83	5.2	147
20	Overcoming Limitation in the Design of Selective Solid Catalysts by Manipulating Shape and Size of Catalytic Particles: Epoxidation Reactions on Silver. <i>ChemCatChem</i> , 2010 , 2, 1061-1063	5.2	29
19	Establishing Relationships Between the Geometric Structure and Chemical Reactivity of Alloy Catalysts Based on Their Measured Electronic Structure. <i>Topics in Catalysis</i> , 2010 , 53, 348-356	2.3	53
18	Direct Electrochemical Oxidation of Hydrocarbon Fuels on SOFCs: Improved Carbon Tolerance of Ni Alloy Anodes. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1312	3.9	57
17	First-Principles Analysis of the Activity of Transition and Noble Metals in the Direct Utilization of Hydrocarbon Fuels at Solid Oxide Fuel Cell Operating Conditions. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1457	3.9	39
16	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. <i>Journal of Catalysis</i> , 2009 , 263, 220-227	7.3	132
15	Measuring and relating the electronic structures of nonmodel supported catalytic materials to their performance. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2747-54	16.4	89
14	Strong Chemical Interactions Between Au and Off-Stoichiometric Defects on TiO ₂ as a Possible Source of Chemical Activity of Nanosized Au Supported on the Oxide. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6689-6693	3.8	53
13	Engineering selectivity in heterogeneous catalysis: Ag nanowires as selective ethylene epoxidation catalysts. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11264-5	16.4	240
12	Heterogeneous Catalysis of Alkene Epoxidation 2008 , 3448		5
11	First-Principles Investigations of Electrochemical Oxidation of Hydrogen at Solid Oxide Fuel Cell Operating Conditions. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B919	3.9	40
10	Controlling carbon surface chemistry by alloying: carbon tolerant reforming catalyst. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11354-5	16.4	152
9	Ethylene epoxidation on Ag: identification of the crucial surface intermediate by experimental and theoretical investigation of its electronic structure. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2918-21	16.4	70
8	Ethylene Epoxidation on Ag: Identification of the Crucial Surface Intermediate by Experimental and Theoretical Investigation of its Electronic Structure. <i>Angewandte Chemie</i> , 2004 , 116, 2978-2981	3.6	11
7	Selectivity driven design of bimetallic ethylene epoxidation catalysts from first principles. <i>Journal of Catalysis</i> , 2004 , 224, 489-493	7.3	167
6	On the mechanism of Cs promotion in ethylene epoxidation on Ag. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8086-7	16.4	83

5	Construction of a reaction coordinate and a microkinetic model for ethylene epoxidation on silver from DFT calculations and surface science experiments. <i>Journal of Catalysis</i> , 2003 , 214, 200-212	7.3	146
4	Control of ethylene epoxidation selectivity by surface oxametallacycles. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4034-5	16.4	178
3	Synthesis of Oxametallacycles from 2-Iodoethanol on Ag(111) and the Structure Dependence of Their Reactivity. <i>Langmuir</i> , 2002 , 18, 5197-5204	4	45
2	Formation of a stable surface oxametallacycle that produces ethylene oxide. <i>Journal of the American Chemical Society</i> , 2002 , 124, 310-7	16.4	178
1	Characterizing the Geometry and Quantifying the Impact of Nanoscopic Electrocatalyst/Semiconductor Interfaces under Solar Water Splitting Conditions. <i>Advanced Energy Materials</i> , 2103798	21.8	0