

Olga Kasian

List of Publications by Year in descending order

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66
papers

5,269
citations

117453

34
h-index

118652

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67
docs citations

67
times ranked

6075
citing authors

#	ARTICLE	IF	CITATIONS
1	A bilayer conducting polymer structure for planar perovskite solar cells with over 1,400 hours operational stability at elevated temperatures. <i>Nature Energy</i> , 2022, 7, 144-152.	19.8	123
2	<i>Operando</i> Structure-Activity-Stability Relationship of Iridium Oxides during the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2022, 12, 5174-5184.	5.5	40
3	Controlled Doping of Electrocatalysts through Engineering Impurities. <i>Advanced Materials</i> , 2022, 34, e2203030.	11.1	12
4	Stabilization of an iridium oxygen evolution catalyst by titanium oxides. <i>JPhys Energy</i> , 2021, 3, 034006.	2.3	19
5	Tuning the Anodic and Cathodic Dissolution of Gold by Varying the Surface Roughness. <i>ChemElectroChem</i> , 2021, 8, 1524-1530.	1.7	3
6	Fused Filament Fabrication-Based Additive Manufacturing of Commercially Pure Titanium. <i>Advanced Engineering Materials</i> , 2021, 23, 2100380.	1.6	13
7	Direct Imaging of Dopant and Impurity Distributions in 2D MoS ₂ . <i>Advanced Materials</i> , 2020, 32, e1907235.	11.1	26
8	Atomic-Scale Mapping of Impurities in Partially Reduced Hollow TiO ₂ Nanowires. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5651-5655.	7.2	42
9	Probing catalytic surfaces by correlative scanning photoemission electron microscopy and atom probe tomography. <i>Journal of Materials Chemistry A</i> , 2020, 8, 388-400.	5.2	19
10	Defect Segregation and Its Effect on the Photoelectrochemical Properties of Ti-Doped Hematite Photoanodes for Solar Water Splitting. <i>Chemistry of Materials</i> , 2020, 32, 1031-1040.	3.2	23
11	Synthesis and Doping Strategies to Improve the Photoelectrochemical Water Oxidation Activity of BiVO ₄ Photoanodes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 655-682.	1.4	6
12	Different Photostability of BiVO ₄ in Near-pH-Neutral Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 9523-9527.	2.5	41
13	Improved Hydrogen Oxidation Reaction Activity and Stability of Buried Metal-Oxide Electrocatalyst Interfaces. <i>Chemistry of Materials</i> , 2020, 32, 7716-7724.	3.2	38
14	Lattice Oxygen Exchange in Rutile IrO ₂ during the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5008-5014.	2.1	81
15	Solute hydrogen and deuterium observed at the near atomic scale in high-strength steel. <i>Acta Materialia</i> , 2020, 188, 108-120.	3.8	64
16	Insight into the Mechanisms of High Activity and Stability of Iridium Supported on Antimony-Doped Tin Oxide Aerogel for Anodes of Proton Exchange Membrane Water Electrolyzers. <i>ACS Catalysis</i> , 2020, 10, 2508-2516.	5.5	67
17	Formation of a 2D Meta-stable Oxide by Differential Oxidation of AgCu Alloys. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23595-23605.	4.0	9
18	Tuning Fundamental Properties of Ir-Based Materials to Enhance Their Electrocatalytic Performance in the Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1557-1557.	0.0	0

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19	Atomic-Scale View into the Degradation of Ir-Ru Alloys during Anodic Oxygen Evolution. ECS Meeting Abstracts, 2020, MA2020-01, 1520-1520.	0.0	0
20	New Frontiers in Electrocatalyst Characterization â€“ Three Dimensional Atomic-Scale Insights By Atom Probe Tomography. ECS Meeting Abstracts, 2020, MA2020-01, 2561-2561.	0.0	0
21	Improving Stability and Kinetics of Alkaline HOR Catalysts â€“ Towards Reduced System Cost. ECS Meeting Abstracts, 2020, MA2020-01, 1686-1686.	0.0	0
22	(Invited) From Atomic-Scale Understanding to Design of Advanced Electrocatalyst Materials. ECS Meeting Abstracts, 2020, MA2020-02, 3154-3154.	0.0	0
23	An Integrated Workflow To Investigate Electrocatalytic Surfaces By Correlative X-ray Photoemission Spectroscopy, Scanning Photoemission Electron Microscopy and Atom Probe Tomography. Microscopy and Microanalysis, 2019, 25, 306-307.	0.2	1
24	Extension of the Rotating Disk Electrode Method to Thin Samples of Non-Disk Shape. Journal of the Electrochemical Society, 2019, 166, H791-H794.	1.3	5
25	Dissolution of BiVO ₄ Photoanodes Revealed by Time-Resolved Measurements under Photoelectrochemical Conditions. Journal of Physical Chemistry C, 2019, 123, 23410-23418.	1.5	47
26	Enhanced Photoelectrochemical Water Oxidation Performance by Fluorine Incorporation in BiVO ₄ and Mo:BiVO ₄ Thin Film Photoanodes. ACS Applied Materials & Interfaces, 2019, 11, 16430-16442.	4.0	52
27	Alkaline manganese electrochemistry studied by <i>in situ</i> and <i>operando</i> spectroscopic methods â€“ metal dissolution, oxide formation and oxygen evolution. Physical Chemistry Chemical Physics, 2019, 21, 10457-10469.	1.3	32
28	Degradation of iridium oxides <i>via</i> oxygen evolution from the lattice: correlating atomic scale structure with reaction mechanisms. Energy and Environmental Science, 2019, 12, 3548-3555.	15.6	147
29	Electrochemical Onâ€line ICPâ€MS in Electrocatalysis Research. Chemical Record, 2019, 19, 2130-2142.	2.9	92
30	Atomic-scale insights into surface species of electrocatalysts in three dimensions. Nature Catalysis, 2018, 1, 300-305.	16.1	161
31	Atomically Defined Co ₃ O ₄ (111) Thin Films Prepared in Ultrahigh Vacuum: Stability under Electrochemical Conditions. Journal of Physical Chemistry C, 2018, 122, 7236-7248.	1.5	34
32	Using Instability of a Non-stoichiometric Mixed Oxide Oxygen Evolution Catalyst As a Tool to Improve Its Electrocatalytic Performance. Electrocatalysis, 2018, 9, 139-145.	1.5	20
33	The Electrochemical Dissolution of Noble Metals in Alkaline Media. Electrocatalysis, 2018, 9, 153-161.	1.5	82
34	Die gemeinsamen Zwischenprodukte von Sauerstoffentwicklung und AuflÃ¶sung wÃhrend der Wasserelektrolyse an Iridium. Angewandte Chemie, 2018, 130, 2514-2517.	1.6	37
35	The Common Intermediates of Oxygen Evolution and Dissolution Reactions during Water Electrolysis on Iridium. Angewandte Chemie - International Edition, 2018, 57, 2488-2491.	7.2	331
36	Nickel-molybdenum alloy catalysts for the hydrogen evolution reaction: Activity and stability revised. Electrochimica Acta, 2018, 259, 1154-1161.	2.6	116

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37	Why Tin Doping Enhances the Efficiency of Hematite Photoanodes for Water Splitting? The Full Picture. <i>Advanced Functional Materials</i> , 2018, 28, 1804472.	7.8	53
38	An alkaline water electrolyzer with nickel electrodes enables efficient high current density operation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11932-11938.	3.8	66
39	Impact of Palladium Loading and Interparticle Distance on the Selectivity for the Oxygen Reduction Reaction toward Hydrogen Peroxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15878-15885.	1.5	53
40	Superior solar-to-hydrogen energy conversion efficiency by visible light-driven hydrogen production via highly reduced Ti^{2+}/Ti^{3+} states in a blue titanium dioxide photocatalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 4657-4664.	2.1	30
41	Melamine-functionalized graphene oxide: Synthesis, characterization and considering as pseudocapacitor electrode material with intermixed POAP polymer. <i>Applied Surface Science</i> , 2018, 459, 874-883.	3.1	50
42	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. <i>Nature Materials</i> , 2018, 17, 592-598.	13.3	89
43	The stability number as a metric for electrocatalyst stability benchmarking. <i>Nature Catalysis</i> , 2018, 1, 508-515.	16.1	533
44	Electrocatalytic synthesis of hydrogen peroxide on Au-Pd nanoparticles: From fundamentals to continuous production. <i>Chemical Physics Letters</i> , 2017, 683, 436-442.	1.2	112
45	Stability and Activity of Non-Noble Metal-Based Catalysts Toward the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 9899-9903.	1.6	17
46	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Fe-N-C Catalysts. <i>Angewandte Chemie</i> , 2017, 129, 8935-8938.	1.6	16
47	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Fe-N-C Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8809-8812.	7.2	176
48	Stability and Activity of Non-Noble Metal-Based Catalysts Toward the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9767-9771.	7.2	118
49	Catalyst Stability Benchmarking for the Oxygen Evolution Reaction: The Importance of Backing Electrode Material and Dissolution in Accelerated Aging Studies. <i>ChemSusChem</i> , 2017, 10, 4140-4143.	3.6	111
50	State of the Surface of Antibacterial Copper in Phosphate Buffered Saline. <i>Journal of the Electrochemical Society</i> , 2017, 164, H734-H742.	1.3	14
51	Stability limits of tin-based electrocatalyst supports. <i>Scientific Reports</i> , 2017, 7, 4595.	1.6	127
52	Individual Detection and Electrochemically Assisted Identification of Adsorbed Nanoparticles by Using Surface Plasmon Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7247-7251.	7.2	43
53	Activity and Stability of Electrochemically and Thermally Treated Iridium for the Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3132-F3138.	1.3	140
54	Oxygen evolution activity and stability of iridium in acidic media. Part 1. "Metallic iridium. <i>Journal of Electroanalytical Chemistry</i> , 2016, 773, 69-78.	1.9	159

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55	Minimizing Operando Demetallation of Fe-N-C Electrocatalysts in Acidic Medium. ACS Catalysis, 2016, 6, 3136-3146.	5.5	201
56	On the Origin of the Improved Ruthenium Stability in RuO ₂ /IrO ₂ Mixed Oxides. Journal of the Electrochemical Society, 2016, 163, F3099-F3104.	1.3	82
57	Electrochemical dissolution of gold in presence of chloride and bromide traces studied by on-line electrochemical inductively coupled plasma mass spectrometry. Electrochimica Acta, 2016, 222, 1056-1063.	2.6	33
58	Oxygen evolution activity and stability of iridium in acidic media. Part 2. Electrochemically grown hydrous iridium oxide. Journal of Electroanalytical Chemistry, 2016, 774, 102-110.	1.9	209
59	Oxygen and hydrogen evolution reactions on Ru, RuO ₂ , Ir, and IrO ₂ thin film electrodes in acidic and alkaline electrolytes: A comparative study on activity and stability. Catalysis Today, 2016, 262, 170-180.	2.2	999
60	Anodic oxidation of Cr ³⁺ ions in a chromium electroplating bath on Pt and composite TiO _x /PtO _y . Russian Journal of Electrochemistry, 2013, 49, 1165-1170.	0.3	2
61	Electrochemical properties of Ebonex [®] /Pt anodes. Russian Journal of Electrochemistry, 2013, 49, 557-562.	0.3	2
62	Electrochemical properties of heat-treated platinized titanium. Protection of Metals and Physical Chemistry of Surfaces, 2013, 49, 559-566.	0.3	5
63	Physicochemical properties and electrochemical behavior of Ebonex/Pt-based materials. Protection of Metals and Physical Chemistry of Surfaces, 2013, 49, 705-711.	0.3	1
64	Electrochemical properties of thermally treated platinized Ebonex [®] with low content of Pt. Electrochimica Acta, 2013, 109, 630-637.	2.6	29
65	Oxidation of Cr ³⁺ -Ions at the Composite TiO ₂ /PtO ₂ Electrode. ECS Transactions, 2013, 45, 13-18.	0.3	8
66	Anodic Decomposition of Complexing Agents in Electrolytes Based on Cr(III) Salts at Composite TiO ₂ /PtO ₂ Electrodes. Chemistry and Chemical Technology, 2012, 6, 241-244.	0.2	7