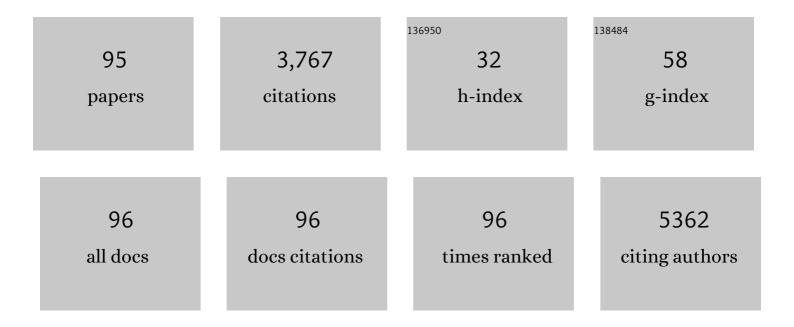
Iradwikanari Waluyo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Exsolution Synthesis of Nanocomposite Perovskites with Tunable Electrical and Magnetic Properties. Advanced Functional Materials, 2022, 32, 2108005.	14.9	20
2	Water Formation Reaction under Interfacial Confinement: Al0.25Si0.75O2 on O-Ru(0001). Nanomaterials, 2022, 12, 183.	4.1	2
3	Thermally-driven reactivity of Li _{0.35} La _{0.55} TiO ₃ solid electrolyte with LiCoO ₂ cathode. Journal of Materials Chemistry A, 2022, 10, 3485-3494.	10.3	6
4	Avoiding CO ₂ Improves Thermal Stability at the Interface of Li ₇ La ₃ Zr ₂ O ₁₂ Electrolyte with Layered Oxide Cathodes. Advanced Energy Materials, 2022, 12, .	19.5	17
5	Investigating the Elusive Nature of Atomic O from CO ₂ Dissociation on Pd(111): The Role of Surface Hydrogen. Journal of Physical Chemistry C, 2022, 126, 7870-7879.	3.1	1
6	Additive engineering for robust interphases to stabilize high-Ni layered structures at ultra-high voltage of 4.8 V. Nature Energy, 2022, 7, 484-494.	39.5	138
7	Strain-Dependent Surface Defect Equilibria of Mixed Ionic-Electronic Conducting Perovskites. Chemistry of Materials, 2022, 34, 5138-5150.	6.7	7
8	Elucidating CO Oxidation Pathways on Rh Atoms and Clusters on the "29―Cu ₂ O/Cu(111) Surface. Journal of Physical Chemistry C, 2022, 126, 11091-11102.	3.1	1
9	Unraveling the role of tungsten as a minor alloying element in the oxidation NiCr alloys. Npj Materials Degradation, 2022, 6, .	5.8	5
10	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithiumâ€ion Battery Cathode Materials. Advanced Functional Materials, 2021, 31, 2001633.	14.9	21
11	Designing perovskite catalysts for controlled active-site exsolution in the microwave dry reforming of methane. Applied Catalysis B: Environmental, 2021, 284, 119711.	20.2	37
12	In situ ambient pressure XPS study of Pt/Cu(111) single-atom alloy in catalytically relevant reaction conditions. Journal Physics D: Applied Physics, 2021, 54, 194004.	2.8	12
13	Enhanced Catalysis under 2D Silica: A CO Oxidation Study. Angewandte Chemie, 2021, 133, 10983-10989.	2.0	1
14	Enhanced Catalysis under 2D Silica: A CO Oxidation Study. Angewandte Chemie - International Edition, 2021, 60, 10888-10894.	13.8	12
15	Thermally Aged Li–Mn–O Cathode with Stabilized Hybrid Cation and Anion Redox. Nano Letters, 2021, 21, 4176-4184.	9.1	6
16	Modification of the Coordination Environment of Active Sites on MoC for Highâ€Efficiency CH ₄ Production. Advanced Energy Materials, 2021, 11, 2100044.	19.5	21
17	Tuning Point Defects by Elastic Strain Modulates Nanoparticle Exsolution on Perovskite Oxides. Chemistry of Materials, 2021, 33, 5021-5034.	6.7	36
18	Microscopic relaxation channels in materials for superconducting qubits. Communications Materials, 2021, 2, .	6.9	31

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19	Xenon Trapping in Metalâ€Supported Silica Nanocages. Small, 2021, 17, 2103661.	10.0	2
20	Adsorption and activation of CO2 on Pt/CeOx/TiO2(110): Role of the Pt-CeOx interface. Surface Science, 2021, 710, 121852.	1.9	5
21	Reusing Face Covering Masks: Probing the Impact of Heat Treatment. ACS Sustainable Chemistry and Engineering, 2021, 9, 13545-13558.	6.7	8
22	Local Modulation of Single-Atomic Mn Sites for Enhanced Ambient Ammonia Electrosynthesis. ACS Catalysis, 2021, 11, 509-516.	11.2	93
23	Stabilizing electrode–electrolyte interfaces to realize high-voltage Li LiCoO ₂ batteries by a sulfonamide-based electrolyte. Energy and Environmental Science, 2021, 14, 6030-6040.	30.8	84
24	Xenon Trapping in Metalâ€&upported Silica Nanocages (Small 39/2021). Small, 2021, 17, 2170204.	10.0	0
25	Interface Sensitivity in Electron/Ion Yield X-ray Absorption Spectroscopy: The TiO ₂ –H ₂ O Interface. Journal of Physical Chemistry Letters, 2021, 12, 10212-10217.	4.6	17
26	Structure and Chemical State of Cesium on Well-Defined Cu(111) and Cu ₂ O/Cu(111) Surfaces. Journal of Physical Chemistry C, 2020, 124, 3107-3121.	3.1	16
27	Distinguishing electronic contributions of surface and sub-surface transition metal atoms in Ti-based MXenes. 2D Materials, 2020, 7, 025015.	4.4	31
28	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient COâ€O Complex**. Angewandte Chemie - International Edition, 2020, 59, 20037-20043.	13.8	13
29	Stabilized Coâ€Free Liâ€Rich Oxide Cathode Particles with An Artificial Surface Prereconstruction. Advanced Energy Materials, 2020, 10, 2001120.	19.5	74
30	Nucleation and Initial Stages of Growth during the Atomic Layer Deposition of Titanium Oxide on Mesoporous Silica. Nano Letters, 2020, 20, 6884-6890.	9.1	23
31	Bulk vs Intrinsic Activity of NiFeO _{<i>x</i>} Electrocatalysts in the Oxygen Evolution Reaction: The Influence of Catalyst Loading, Morphology, and Support Material. ACS Catalysis, 2020, 10, 11768-11778.	11.2	23
32	Thermally Driven Interfacial Degradation between Li ₇ La ₃ Zr ₂ O ₁₂ Electrolyte and LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode. Chemistry of Materials, 2020, 32, 9531-9541.	6.7	27
33	A Surface Se‣ubstituted LiCo[O _{2â^'} <i>_δ</i> Se <i>_δ</i>] Cathode with Ultrastable Highâ€Voltage Cycling in Pouch Fullâ€Cells. Advanced Materials, 2020, 32, e2005182.	21.0	110
34	Gradient-morph LiCoO ₂ single crystals with stabilized energy density above 3400 W h L ^{â^'1} . Energy and Environmental Science, 2020, 13, 1865-1878.	30.8	118
35	Protonic solid-state electrochemical synapse for physical neural networks. Nature Communications, 2020, 11, 3134.	12.8	82
36	Accelerated Cu ₂ 0 Reduction by Single Pt Atoms at the Metal-Oxide Interface. ACS Catalysis, 2020, 10, 4215-4226.	11.2	34

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37	Multimodal Synchrotron Approach: Research Needs and Scientific Vision. Synchrotron Radiation News, 2020, 33, 44-47.	0.8	3
38	Interfacial engineering for stabilizing polymer electrolytes with 4V cathodes in lithium metal batteries at elevated temperature. Nano Energy, 2020, 72, 104655.	16.0	68
39	Bi-directional tuning of thermal transport in SrCoOx with electrochemically induced phase transitions. Nature Materials, 2020, 19, 655-662.	27.5	88
40	Morphology and chemical behavior of model CsOx/Cu2O/Cu(111) nanocatalysts for methanol synthesis: Reaction with CO2 and H2. Journal of Chemical Physics, 2020, 152, 044701.	3.0	8
41	CO Oxidation Mechanisms on CoO _{<i>x</i>} -Pt Thin Films. Journal of the American Chemical Society, 2020, 142, 8312-8322.	13.7	39
42	Ultrafine CoO nanoparticles as an efficient cocatalyst for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 15633-15640.	5.6	44
43	Threshold catalytic onset of carbon formation on CeO ₂ during CO ₂ electrolysis: mechanism and inhibition. Journal of Materials Chemistry A, 2019, 7, 15233-15243.	10.3	19
44	Wet Chemical Growth and Thermocatalytic Activity of Cu-Based Nanoparticles Supported on TiO ₂ Nanoparticles/HOPG: In Situ Ambient Pressure XPS Study of the CO ₂ Hydrogenation Reaction. ACS Catalysis, 2019, 9, 6783-6802.	11.2	62
45	Improving the Electrochemical Performance and Structural Stability of the LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material at High-Voltage Charging through Ti Substitution. ACS Applied Materials & amp; Interfaces, 2019, 11, 23213-23221.	8.0	57
46	Edge-Enhanced Oxygen Evolution Reactivity at Ultrathin, Au-Supported Fe ₂ O ₃ Electrocatalysts. ACS Catalysis, 2019, 9, 5375-5382.	11.2	46
47	Ultrathin Amorphous Titania on Nanowires: Optimization of Conformal Growth and Elucidation of Atomic-Scale Motifs. Nano Letters, 2019, 19, 3457-3463.	9.1	14
48	Synthesis and Characterization of a Molecularly Designed Highâ€Performance Organodisulfide as Cathode Material for Lithium Batteries. Advanced Energy Materials, 2019, 9, 1900705.	19.5	34
49	Highly Active and Stable Carbon Nanosheets Supported Iron Oxide for Fischerâ€Tropsch to Olefins Synthesis. ChemCatChem, 2019, 11, 1625-1632.	3.7	8
50	Understanding three-dimensionally interconnected porous oxide-derived copper electrocatalyst for selective carbon dioxide reduction. Journal of Materials Chemistry A, 2019, 7, 27576-27584.	10.3	21
51	Gradient Li-rich oxide cathode particles immunized against oxygen release by a molten salt treatment. Nature Energy, 2019, 4, 1049-1058.	39.5	248
52	Subtle and reversible interactions of ambient pressure H2 with Pt/Cu(111) single-atom alloy surfaces. Surface Science, 2019, 679, 207-213.	1.9	17
53	Potassium-Promoted Reduction of Cu ₂ O/Cu(111) by CO. Journal of Physical Chemistry C, 2019, 123, 8057-8066 Hydration of gadolinium oxide (

xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:m mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub>. Physical Review Materials, 2019, 3

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55	<i>In Situ</i> Characterization of Mesoporous Co/CeO ₂ Catalysts for the High-Temperature Water-Gas Shift. Journal of Physical Chemistry C, 2018, 122, 8998-9008.	3.1	28
56	Enhanced Stability of Pt-Cu Single-Atom Alloy Catalysts: In Situ Characterization of the Pt/Cu(111) Surface in an Ambient Pressure of CO. Journal of Physical Chemistry C, 2018, 122, 4488-4495.	3.1	68
57	Enhanced, robust light-driven H ₂ generation by gallium-doped titania nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 2104-2112.	2.8	23
58	Surface Defect Chemistry and Electronic Structure of Pr0.1Ce0.9O2â^Î^ Revealed in Operando. Chemistry of Materials, 2018, 30, 2600-2606.	6.7	24
59	Hydrogenation of CO ₂ on ZnO/Cu(100) and ZnO/Cu(111) Catalysts: Role of Copper Structure and Metal–Oxide Interface in Methanol Synthesis. Journal of Physical Chemistry B, 2018, 122, 794-800.	2.6	129
60	Investigation of Water Dissociation and Surface Hydroxyl Stability on Pure and Ni-Modified CoOOH by Ambient Pressure Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 810-817.	2.6	18
61	Deconvolution of octahedral Pt3Ni nanoparticle growth pathway from in situ characterizations. Nature Communications, 2018, 9, 4485.	12.8	37
62	Structural and chemical state of doped and impregnated mesoporous Ni/CeO2 catalysts for the water-gas shift. Applied Catalysis A: General, 2018, 567, 1-11.	4.3	10
63	Structure, Chemistry, and Charge Transfer Resistance of the Interface between Li ₇ La ₃ Zr ₂ O ₁₂ Electrolyte and LiCoO ₂ Cathode. Chemistry of Materials, 2018, 30, 6259-6276.	6.7	125
64	Imaging the ordering of a weakly adsorbed two-dimensional condensate: ambient-pressure microscopy and spectroscopy of CO ₂ molecules on rutile TiO ₂ (110). Physical Chemistry Chemical Physics, 2018, 20, 13122-13126.	2.8	9
65	Enhancement in Oxygen Reduction Reaction Activity of Nitrogenâ€Doped Carbon Nanostructures in Acidic Media through Chlorideâ€Ion Exposure. ChemElectroChem, 2018, 5, 1966-1975.	3.4	16
66	Strongly correlated perovskite lithium ion shuttles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9672-9677.	7.1	55
67	Spectroscopic Identification of Surface Intermediates in the Decomposition of Methylamine on Ru(001). Journal of Physical Chemistry C, 2017, 121, 9424-9432.	3.1	2
68	Interfaces in heterogeneous catalytic reactions: Ambient pressure XPS as a tool to unravel surface chemistry. Journal of Electron Spectroscopy and Related Phenomena, 2017, 221, 28-43.	1.7	41
69	Cu supported on mesoporous ceria: water gas shift activity at low Cu loadings through metal–support interactions. Physical Chemistry Chemical Physics, 2017, 19, 17708-17717.	2.8	25
70	New In-Situ and Operando Facilities for Catalysis Science at NSLS-II: The Deployment of Real-Time, Chemical, and Structure-Sensitive X-ray Probes. Synchrotron Radiation News, 2017, 30, 30-37.	0.8	28
71	Inverse Catalysts for CO Oxidation: Enhanced Oxide–Metal Interactions in MgO/Au(111), CeO ₂ /Au(111), and TiO ₂ /Au(111). ACS Sustainable Chemistry and Engineering, 2017, 5, 10783-10791.	6.7	32
72	Energy Level Shifts at the Silica/Ru(0001) Heterojunction Driven by Surface and Interface Dipoles. Topics in Catalysis, 2017, 60, 481-491.	2.8	32

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73	Studying two-dimensional zeolites with the tools of surface science: MFI nanosheets on Au(111). Catalysis Today, 2017, 280, 283-288.	4.4	11
74	Dry Reforming of Methane on a Highlyâ€Active Niâ€CeO ₂ Catalyst: Effects of Metalâ€Support Interactions on Câ"H Bond Breaking. Angewandte Chemie - International Edition, 2016, 55, 7455-7459.	13.8	276
75	Dry Reforming of Methane on a Highlyâ€Active Niâ€CeO ₂ Catalyst: Effects of Metalâ€Support Interactions on Câ~'H Bond Breaking. Angewandte Chemie, 2016, 128, 7581-7585.	2.0	35
76	Oxidation and Reduction under Cover: Chemistry at the Confined Space between Ultrathin Nanoporous Silicates and Ru(0001). Journal of Physical Chemistry C, 2016, 120, 8240-8245.	3.1	44
77	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Ni–CeO ₂ (111) catalysts: an in situ study of C–C and O–H bond scission. Physical Chemistry Chemical Physics, 2016, 18, 16621-16628.	2.8	83
78	Hydrogenation and dehydrogenation reactions of C2Hx moieties on the Ru(001) surface. Surface Science, 2016, 650, 144-148.	1.9	3
79	Hydrogenation of CO ₂ to Methanol on CeO _{<i>x</i>} /Cu(111) and ZnO/Cu(111) Catalysts: Role of the Metal–Oxide Interface and Importance of Ce ³⁺ Sites. Journal of Physical Chemistry C, 2016, 120, 1778-1784.	3.1	156
80	Long-range ion–water and ion–ion interactions in aqueous solutions. Physical Chemistry Chemical Physics, 2015, 17, 8427-8430.	2.8	15
81	Spectroscopic characterization of C2Hx intermediates in the dissociation of vinyl iodide on Pt(111). Surface Science, 2015, 637-638, 29-34.	1.9	9
82	Simultaneous Monitoring of Surface and Gas Phase Species during Hydrogenation of Acetylene over Pt(111) by Polarization-Dependent Infrared Spectroscopy. ACS Catalysis, 2015, 5, 4725-4733.	11.2	25
83	Adsorbate-driven morphological changes on Cu(111) nano-pits. Physical Chemistry Chemical Physics, 2015, 17, 3032-3038.	2.8	8
84	A different view of structure-making and structure-breaking in alkali halide aqueous solutions through x-ray absorption spectroscopy. Journal of Chemical Physics, 2014, 140, 244506.	3.0	70
85	Observation of Tunneling in the Hydrogenation of Atomic Nitrogen on the Ru(001) Surface to Form NH. Journal of Physical Chemistry Letters, 2013, 4, 3779-3786.	4.6	17
86	Spectroscopic Identification of Surface Intermediates in the Dehydrogenation of Ethylamine on Pt(111). Journal of Physical Chemistry C, 2013, 117, 4666-4679.	3.1	3
87	Solvation structures of protons and hydroxide ions in water. Journal of Chemical Physics, 2013, 138, 154506.	3.0	19
88	Aminovinylidene: A Stable Surface Intermediate in the Dehydrogenation of Ethylamine on Pt(1 1 1). ChemCatChem, 2012, 4, 1075-1078.	3.7	5
89	The structure of water in the hydration shell of cations from x-ray Raman and small angle x-ray scattering measurements. Journal of Chemical Physics, 2011, 134, 064513.	3.0	111
90	Increased fraction of low-density structures in aqueous solutions of fluoride. Journal of Chemical Physics, 2011, 134, 224507.	3.0	18

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91	X-ray absorption spectroscopy and X-ray Raman scattering of water and ice; an experimental view. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 99-129.	1.7	158
92	Direct Interaction of Water Ice with Hydrophobic Methyl-Terminated Si(111). Journal of Physical Chemistry C, 2010, 114, 19004-19008.	3.1	7
93	Increased fraction of weakened hydrogen bonds of water in aerosol OT reverse micelles. Journal of Chemical Physics, 2009, 131, 031103.	3.0	19
94	Spectroscopic evidence for the formation of 3-D crystallites during isothermal heating of amorphous ice on Pt(111). Surface Science, 2008, 602, 2004-2008.	1.9	15
95	Ambient Pressure X-ray Photoelectron Spectroscopy at the IOS (23-ID-2) Beamline at the National Synchrotron Light Source II. Synchrotron Radiation News, 0, , 1-8.	0.8	7