Hisao Kiuchi

List of Publications by Year
in descending order

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39	846	567281	477307
papers	citations	15 h-index	29 g-index

40	40	40	1456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intermediate honeycomb ordering to trigger oxygen redox chemistry in layered battery electrode. Nature Communications, 2016, 7, 11397.	12.8	232
2	Redox Potential Paradox in Na_xMO₂ for Sodium-Ion Battery Cathodes. Chemistry of Materials, 2016, 28, 1058-1065.	6.7	93
3	Cathode Electrolyte Interphase Formation and Electrolyte Oxidation Mechanism for Ni-Rich Cathode Materials. Journal of Physical Chemistry C, 2020, 124, 9243-9248.	3.1	65
4	Lewis Basicity of Nitrogen-Doped Graphite Observed by CO2 Chemisorption. Nanoscale Research Letters, 2016, 11, 127.	5.7	49
5	Operando soft X-ray emission spectroscopy of iron phthalocyanine-based oxygen reduction catalysts. Electrochemistry Communications, 2013, 35, 57-60.	4.7	42
6	Dzyaloshinskii-Moriya interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> measured by magnetic circular dichroism in resonant inelastic soft x-ray scattering. Physical Review B, 2017, 96, .	3.2	31
7	Operando soft x-ray emission spectroscopy of LiMn2O4 thin film involving Liâ€“ion extraction/insertion reaction. Electrochemistry Communications, 2015, 50, 93-96.	4.7	29
8	Characterization of nitrogen species incorporated into graphite using low energy nitrogen ion sputtering. Physical Chemistry Chemical Physics, 2016, 18, 458-465.	2.8	25
9	Activation of Catalytically Active Edge-Sharing Domains in Ca₂FeCoO₅ for Oxygen Evolution Reaction in Highly Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 28823-28829.	8.0	25
10	Operando hard X-ray photoelectron spectroscopy of LiCoO2 thin film in an all-solid-state lithium ion battery. Electrochemistry Communications, 2020, 118, 106790.	4.7	24
11	Degradation Mechanism of Conversion-Type Iron Trifluoride: Toward Improvement of Cycle Performance. ACS Applied Materials & Interfaces, 2019, 11, 30959-30967.	8.0	21
12	Analysis of the discharge/charge mechanism in VS4 positive electrode material. Solid State Ionics, 2018, 323, 32-36.	2.7	19
13	Study on the oxygen adsorption property of nitrogen-containing metal-free carbon-based cathode catalysts for oxygen reduction reaction. Electrochimica Acta, 2012, 82, 291-295.	5.2	17
14	Ironâ€“Nitrogen Coordination in Modified Graphene Catalyzes a Fourâ€Electronâ€Transfer Oxygen Reduction Reaction. ChemElectroChem, 2014, 1, 877-884.	3.4	16
15	Reaction Mechanism of Li₂MnO₃ Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2022, 144, 236-247.	13.7	16
16	Effective Bulk Activation and Interphase Stabilization of Silicon Negative Electrode by Lithium Pre-Doping for Next-Generation Batteries. Journal of the Electrochemical Society, 2019, 166, A5174-A5183.	2.9	14
17	Effects of Film Formation on the Electrodeposition of Lithium. ChemElectroChem, 2020, 7, 4336-4342.	3.4	12
18	Combined Experimental and Computational Analyses on the Electronic Structure of Alluaudite-Type Sodium Iron Sulfate. Journal of Physical Chemistry C, 2016, 120, 23323-23328.	3.1	11

#	Article	IF	Citations
19	Cubic Rocksalt Li₂SnS₃ and a Solid Solution with Li₃NbS₄ Prepared by Mechanochemical Synthesis. Electrochemistry, 2017, 85, 580-584.	1.4	11
20	Mn 2p resonant X-ray emission clarifies the redox reaction and charge-transfer effects in LiMn₂O₄. Physical Chemistry Chemical Physics, 2019, 21, 18363-18369.	2.8	11
21	Operando analysis of electronic band structure in an all-solid-state thin-film battery. Communications Chemistry, 2022, 5, .	4.5	11
22	Mechanism of Structural Change and the Trigger of Electrochemical Degradation of Li-Rich Layered Oxide Cathodes during Chargeâ€“Discharge Cycles. ACS Applied Energy Materials, 2019, 2, 8118-8124.	5.1	10
23	Highly Durable Oxygen Evolution Reaction Catalyst: Amorphous Oxyhydroxide Derived from Brownmillerite-Type Ca₂FeCoO₅. ACS Applied Energy Materials, 2020, 3, 5269-5276.	5.1	10
24	Operando soft X-ray emission spectroscopy of the Fe₂O₃ anode to observe the conversion reaction. Physical Chemistry Chemical Physics, 2019, 21, 26351-26357.	2.8	9
25	Improvement of Cycle Capability of Fe-Substituted Li₂S-Based Positive Electrode Materials by Doping with Lithium Iodide. Journal of the Electrochemical Society, 2019, 166, A5231-A5236.	2.9	8
26	Improvement of Electrochemical Property of VS₄ Electrode Material by Amorphization via Mechanical Milling Process. Electrochemistry, 2021, 89, 239-243.	1.4	7
27	A compact permanent-magnet system for measuring magnetic circular dichroism in resonant inelastic soft X-ray scattering. Journal of Synchrotron Radiation, 2017, 24, 449-455.	2.4	5
28	Synthesis of Novel Melilite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity. Chemistry of Materials, 2020, 32, 6847-6854.	6.7	5
29	Improvement of Cycle Capability of VS₄ by Addition of Phosphorus Element. Electrochemistry, 2021, 89, 273-278.	1.4	5
30	Development of a half-cell for x-ray structural analysis of liquid electrolytes in rechargeable batteries. Review of Scientific Instruments, 2020, 91, 033907.	1.3	4
31	First-principles calculations of the atomic structure and electronic states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>S</mml:mi><mml:mi>3</mml:mi></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	3.2	3
32	Multi-Phonon Excitations in Fe 2p RIXS on Mg₂FeH₆. Journal of the Physical Society of Japan, 2015, 84, 043201.	1.6	2
33	Application of Anomalous X-ray Scattering Method to Liquid Electrolytes Used in a Battery: Local Structural Analysis around a Dilute Metallic Ion. Analytical Chemistry, 2020, 92, 9956-9962.	6.5	2
34	Operando resonant soft X-ray emission spectroscopy of the LiMn₂O₄ cathode using an aqueous electrolyte solution. Physical Chemistry Chemical Physics, 2022, 24, 19177-19183.	2.8	2
35	Operando Structural Analysis of Phase Transition of Graphite Electrode during Li De-Intercalation Process Using Synchrotron Radiation X-Ray Diffraction. ECS Meeting Abstracts, 2020, MA2020-02, 3187-3187.	0.0	0
36	(Invited) Elucidation of Electrochemical Reactions in Li2MnO3 Using Thin-Film Solid-State Battery. ECS Meeting Abstracts, 2020, MA2020-02, 37-37.	0.0	0

#	Article	IF	Citations
37	Development of an Electrochemical Cell for In Operando Characterization of Lithium/Electrolyte Interface Using Xâ€Ray Total Reflection. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	0
38	Charge Compensation Mechanism of Li₂MnO₃ Cathode in All-Solid-State Thin Film Battery Investigated By Using Operando HAXPES. ECS Meeting Abstracts, 2020, MA2020-02, 919-919.	0.0	0
39	Electronic Structure of Carbon Dioxide in Sylgard-184 Evaluated by Using X-ray Emission Spectroscopy. Chemistry Letters, 2022, 51, 650-653.	1.3	0