

Hisao Kiuchi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Development of an Electrochemical Cell for In Operando Characterization of Lithium/Electrolyte Interface Using X-Ray Total Reflection. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	0
2	Reaction Mechanism of Li_2MnO_3 Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 236-247.	13.7	16
3	Electronic Structure of Carbon Dioxide in Sylgard-184 Evaluated by Using X-ray Emission Spectroscopy. <i>Chemistry Letters</i> , 2022, 51, 650-653.	1.3	0
4	Operando analysis of electronic band structure in an all-solid-state thin-film battery. <i>Communications Chemistry</i> , 2022, 5, .	4.5	11
5	<i>Operando</i> resonant soft X-ray emission spectroscopy of the LiMn_2O_4 cathode using an aqueous electrolyte solution. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 19177-19183.	2.8	2
6	Improvement of Electrochemical Property of VS_4 Electrode Material by Amorphization via Mechanical Milling Process. <i>Electrochemistry</i> , 2021, 89, 239-243.	1.4	7
7	Improvement of Cycle Capability of VS_4 by Addition of Phosphorus Element. <i>Electrochemistry</i> , 2021, 89, 273-278.	1.4	5
8	Operando hard X-ray photoelectron spectroscopy of LiCoO_2 thin film in an all-solid-state lithium ion battery. <i>Electrochemistry Communications</i> , 2020, 118, 106790.	4.7	24
9	Effects of Film Formation on the Electrodeposition of Lithium. <i>ChemElectroChem</i> , 2020, 7, 4336-4342.	3.4	12
10	Development of a half-cell for x-ray structural analysis of liquid electrolytes in rechargeable batteries. <i>Review of Scientific Instruments</i> , 2020, 91, 033907.	1.3	4
11	Highly Durable Oxygen Evolution Reaction Catalyst: Amorphous Oxyhydroxide Derived from Brownmillerite-Type $\text{Ca}_2\text{FeCoO}_5$. <i>ACS Applied Energy Materials</i> , 2020, 3, 5269-5276.	5.1	10
12	Synthesis of Novel Mellite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity. <i>Chemistry of Materials</i> , 2020, 32, 6847-6854.	6.7	5
13	Application of Anomalous X-ray Scattering Method to Liquid Electrolytes Used in a Battery: Local Structural Analysis around a Dilute Metallic Ion. <i>Analytical Chemistry</i> , 2020, 92, 9956-9962.	6.5	2
14	Cathode Electrolyte Interphase Formation and Electrolyte Oxidation Mechanism for Ni-Rich Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9243-9248.	3.1	65
15	Operando Structural Analysis of Phase Transition of Graphite Electrode during Li De-Intercalation Process Using Synchrotron Radiation X-Ray Diffraction. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3187-3187.	0.0	0
16	(Invited) Elucidation of Electrochemical Reactions in Li_2MnO_3 Using Thin-Film Solid-State Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 37-37.	0.0	0
17	Charge Compensation Mechanism of Li_2MnO_3 Cathode in All-Solid-State Thin Film Battery Investigated By Using Operando HAXPES. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 919-919.	0.0	0
18	Degradation Mechanism of Conversion-Type Iron Trifluoride: Toward Improvement of Cycle Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30959-30967.	8.0	21

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19	First-principles calculations of the atomic structure and electronic states of $\text{Li}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2019, 100, .		
20	Activation of Catalytically Active Edge-Sharing Domains in $\text{Ca}_2\text{FeCoO}_5$ for Oxygen Evolution Reaction in Highly Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 28823-28829.	8.0	25
21	Mn 2p resonant X-ray emission clarifies the redox reaction and charge-transfer effects in LiMn_2O_4 . Physical Chemistry Chemical Physics, 2019, 21, 18363-18369.	2.8	11
22	Mechanism of Structural Change and the Trigger of Electrochemical Degradation of Li-Rich Layered Oxide Cathodes during Charge/Discharge Cycles. ACS Applied Energy Materials, 2019, 2, 8118-8124.	5.1	10
23	Improvement of Cycle Capability of Fe-Substituted Li_2S -Based Positive Electrode Materials by Doping with Lithium Iodide. Journal of the Electrochemical Society, 2019, 166, A5231-A5236.	2.9	8
24	<i>Operando</i> soft X-ray emission spectroscopy of the Fe_2O_3 anode to observe the conversion reaction. Physical Chemistry Chemical Physics, 2019, 21, 26351-26357.	2.8	9
25	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
26	Analysis of the discharge/charge mechanism in VS4 positive electrode material. Solid State Ionics, 2018, 323, 32-36.	2.7	19
27	Dzyaloshinskii-Moriya interaction in O_3 measured by magnetic circular dichroism in resonant inelastic soft x-ray scattering. Physical Review B, 2017, 96, 080401.	3.2	31
28	Cubic Rocksalt Li_2SnS_3 and a Solid Solution with Li_3NbS_4 Prepared by Mechanochemical Synthesis. Electrochemistry, 2017, 85, 580-584.	1.4	11
29	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
30	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
31	Intermediate honeycomb ordering to trigger oxygen redox chemistry in layered battery electrode. Nature Communications, 2016, 7, 11397.	12.8	232
32	Lewis Basicity of Nitrogen-Doped Graphite Observed by CO2 Chemisorption. Nanoscale Research Letters, 2016, 11, 127.	5.7	49
33	Characterization of nitrogen species incorporated into graphite using low energy nitrogen ion sputtering. Physical Chemistry Chemical Physics, 2016, 18, 458-465.	2.8	25
34	Redox Potential Paradox in Na_xMO_2 for Sodium-Ion Battery Cathodes. Chemistry of Materials, 2016, 28, 1058-1065.	6.7	93
35	<i>Operando</i> soft x-ray emission spectroscopy of LiMn_2O_4 thin film involving Li ion extraction/insertion reaction. Electrochemistry Communications, 2015, 50, 93-96.	4.7	29
36	Multi-Phonon Excitations in Fe_2p RIXS on Mg_2FeH_6 . Journal of the Physical Society of Japan, 2015, 84, 043201.	1.6	2

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37	Iron–Nitrogen Coordination in Modified Graphene Catalyzes a Four-Electron-Transfer Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2014, 1, 877-884.	3.4	16
38	Operando soft X-ray emission spectroscopy of iron phthalocyanine-based oxygen reduction catalysts. <i>Electrochemistry Communications</i> , 2013, 35, 57-60.	4.7	42
39	Study on the oxygen adsorption property of nitrogen-containing metal-free carbon-based cathode catalysts for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2012, 82, 291-295.	5.2	17