Takamasa Nonaka

List of Publications by Year
in descending order

22 papers	372 citations	1040056 9 h-index	794594 19 g-index
24 all docs	24 docs citations	24 times ranked	587 citing authors

#	Article	IF	Citations
1	Capacity-Fading Mechanisms of LiNiO[sub 2]-Based Lithium-Ion Batteries. Journal of the Electrochemical Society, 2009, 156, A289.	2.9	110
2	Self-assembled Cuprous Coordination Polymer as a Catalyst for CO₂ Electrochemical Reduction into C₂ Products. ACS Catalysis, 2020, 10, 10412-10419.	11.2	44
3	Highly crystalline Î²-FeOOH(Cl) nanorod catalysts doped with transition metals for efficient water oxidation. Sustainable Energy and Fuels, 2017, 1, 636-643.	4.9	40
4	In situ X-ray Raman scattering spectroscopy of a graphite electrode for lithium-ion batteries. Journal of Power Sources, 2019, 419, 203-207.	7.8	36
5	Highly Enhanced Electrochemical Water Oxidation Reaction over Hyperfine Î²-FeOOH(Cl):Ni Nanorod Electrode by Modification with Amorphous Ni(OH)2. Bulletin of the Chemical Society of Japan, 2018, 91, 778-786.	3.2	24
6	Studying the Charging Process of a Lithium-Ion Battery toward 10 V by In Situ X-ray Absorption and Diffraction: Lithium Insertion/Extraction with Side Reactions at Positive and Negative Electrodes. Journal of the Electrochemical Society, 2016, 163, A1450-A1456.	2.9	21
7	Changes in the stage structure of Li-intercalated graphite electrode at elevated temperatures. Journal of Power Sources, 2021, 482, 228926.	7.8	15
8	In situXAFS study on cathodic materials for lithium-ion batteries. Journal of Synchrotron Radiation, 2001, 8, 869-871.	2.4	13
9	<i>In situ</i> X-ray Raman spectroscopy and magnetic susceptibility study on the Li[Li_{0.15}Mn_{1.85}]O₄ oxygen anion redox reaction. Chemical Communications, 2020, 56, 1701-1704.	4.1	11
10	Appearance of the 4 V signal without transformation to spinel-related oxides from loose-crystalline rock-salt LiMnO2. Journal of Power Sources, 2021, 497, 229788.	7.8	9
11	Unveiling scale differences in the two-phase transformation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si30.svg"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Li</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si31.svg"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Ti</mml:mi></mml:mrow><	18.0	7
12	High-pressure synthesis of Îµ-FeOOH from Î²-FeOOH and its application to the water oxidation catalyst. RSC Advances, 2020, 10, 44756-44767.	3.6	6
13	How Fluorine Introduction Solves the Spinel Transition, a Fundamental Problem of Mn-Based Positive Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 24321-24331.	8.0	6
14	Revisiting LiCoO₂ Using a State-of-the-Art <i>In Operando</i> Technique. Inorganic Chemistry, 2020, 59, 11113-11121.	4.0	5
15	Electrochemical CO2 reduction improved by tuning the Cu-Cu distance in halogen-bridged dinuclear cuprous coordination polymers. Journal of Catalysis, 2021, 404, 12-17.	6.2	5
16	A novel surface-sensitive X-ray absorption spectroscopic detector to study the thermal decomposition of cathode materials for Li-ion batteries. Journal of Power Sources, 2016, 325, 79-83.	7.8	4
17	Hard X-ray spectroscopic methods using emitted X-ray to understand charge compensation in positive electrode materials for lithium-ion batteries. Journal of Power Sources, 2019, 434, 226721.	7.8	4
18	Operando X-ray Diffraction and Double-Edge X-ray Absorption Spectroscopy Studies on a Perfect Zero-Strain Material. Inorganic Chemistry, 2020, 59, 16882-16892.	4.0	4

#	Article	IF	Citations
19	Charge Trapping Process in Photoexcited Nitrogen-Doped Titanium Oxides. Inorganic Chemistry, 2020, 59, 10439-10449.	4.0	3
20	Thermal Behavior of Li_{1+<i>x</i>}[Li_{1/3}Ti_{5/3}]O₄ and a Proof of Concept for Sustainable Batteries. ACS Applied Materials & Interfaces, 2021, 13, 42791-42802.	8.0	3
21	Development of an <i>in situ</i> high-temperature X-ray diffraction technique for lithium-ion battery materials. Chemical Communications, 2021, 57, 9752-9755.	4.1	2
22	Hard X-ray Photon-in/Photon-out Spectroscopies of Lithium-ion Battery Electrodes. Synchrotron Radiation News, 2020, 33, 34-39.	0.8	0