

Taketoshi Minato

List of Publications by Year in descending order

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77
papers

2,766
citations

172457

29
h-index

182427

51
g-index

82
all docs

82
docs citations

82
times ranked

3935
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High energy density rechargeable magnesium battery using earth-abundant and non-toxic elements. <i>Scientific Reports</i> , 2014, 4, 5622. | 3.3 | 286 |
| 2 | Nanoporous Gold Catalyst for Highly Selective Semihydrogenation of Alkynes: Remarkable Effect of Amine Additives. <i>Journal of the American Chemical Society</i> , 2012, 134, 17536-17542. | 13.7 | 201 |
| 3 | The electronic structure of oxygen atom vacancy and hydroxyl impurity defects on titanium dioxide (110) surface. <i>Journal of Chemical Physics</i> , 2009, 130, 124502. | 3.0 | 197 |
| 4 | Quantitating the Lattice Strain Dependence of Monolayer Pt Shell Activity toward Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2013, 135, 5938-5941. | 13.7 | 112 |
| 5 | Investigation of the electronic interaction between TiO ₂ (110) surfaces and Au clusters by PES and STM. <i>Surface Science</i> , 2004, 566-568, 1012-1017. | 1.9 | 99 |
| 6 | Unsupported Nanoporous Gold Catalyst for Chemoselective Hydrogenation Reactions under Low Pressure: Effect of Residual Silver on the Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 10356-10364. | 13.7 | 90 |
| 7 | Aerobic oxidation of alcohols in the liquid phase with nanoporous gold catalysts. <i>Chemical Communications</i> , 2012, 48, 4540. | 4.1 | 82 |
| 8 | Selective Aerobic Oxidation of Methanol in the Coexistence of Amines by Nanoporous Gold Catalysts: Highly Efficient Synthesis of Formamides. <i>Chemistry - A European Journal</i> , 2013, 19, 11832-11836. | 3.3 | 77 |
| 9 | MgFePO ₄ F as a feasible cathode material for magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11578-11582. | 10.3 | 75 |
| 10 | Surface and interface sciences of Li-ion batteries. <i>Progress in Surface Science</i> , 2017, 92, 240-280. | 8.3 | 71 |
| 11 | Nanoporous Copper Metal Catalyst in Click Chemistry: Nanoporosity-Dependent Activity without Supports and Bases. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 3095-3100. | 4.3 | 70 |
| 12 | Improved Cyclic Performance of Lithium-Ion Batteries: An Investigation of Cathode/Electrolyte Interface via In Situ Total-Reflection Fluorescence X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9538-9543. | 3.1 | 60 |
| 13 | Electrochemical Performance of a Bismuth Fluoride Electrode in a Reserve-Type Fluoride Shuttle Battery. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3702-A3708. | 2.9 | 59 |
| 14 | Origin of Surface Coating Effect for MgO on LiCoO ₂ to Improve the Interfacial Reaction between Electrode and Electrolyte. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400195. | 3.7 | 56 |
| 15 | Effect of an Electrolyte Additive of Vinylene Carbonate on the Electronic Structure at the Surface of a Lithium Cobalt Oxide Electrode under Battery Operating Conditions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9791-9797. | 3.1 | 55 |
| 16 | Dependence of Structural Defects in Li ₂ MnO ₃ on Synthesis Temperature. <i>Chemistry of Materials</i> , 2016, 28, 4143-4150. | 6.7 | 54 |
| 17 | Phase Transition Analysis between LiFePO ₄ and FePO ₄ by In-Situ Time-Resolved X-ray Absorption and X-ray Diffraction. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3061-A3065. | 2.9 | 50 |
| 18 | Oxidation behaviour of lattice oxygen in Li-rich manganese-based layered oxide studied by hard X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5909-5916. | 10.3 | 48 |

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|----|---|------|-----------|
| 19 | Relationship between Phase Transition Involving Cationic Exchange and Charge Discharge Rate in Li ₂ FeSiO ₄ . Chemistry of Materials, 2014, 26, 1380-1384. | 6.7 | 47 |
| 20 | First-principles calculations of hydrogen diffusion on rutile TiO ₂ (110) surfaces. Journal of Chemical Physics, 2007, 127, 104709. | 3.0 | 41 |
| 21 | Dynamic Behavior at the Interface between Lithium Cobalt Oxide and an Organic Electrolyte Monitored by Neutron Reflectivity Measurements. Journal of Physical Chemistry C, 2016, 120, 20082-20088. | 3.1 | 39 |
| 22 | Lithium intercalation and structural changes at the LiCoO ₂ surface under high voltage battery operation. Journal of Power Sources, 2016, 307, 599-603. | 7.8 | 37 |
| 23 | X-ray Absorption Fine Structure Combined with Fluorescence Spectrometry for Monitoring Trace Amounts of Lead Adsorption in the Environmental Conditions. Analytical Chemistry, 2002, 74, 3819-3823. | 6.5 | 36 |
| 24 | STM Investigation of CO Ordering on Pt(111): From an Isolated Molecule to High-Coverage Superstructures. Journal of Physical Chemistry C, 2013, 117, 16429-16437. | 3.1 | 35 |
| 25 | Effects of LiBOB on salt solubility and BiF ₃ electrode electrochemical properties in fluoride shuttle batteries. Journal of Materials Chemistry A, 2019, 7, 8559-8567. | 10.3 | 35 |
| 26 | Improvement of cycling performance in bismuth fluoride electrodes by controlling electrolyte composition in fluoride shuttle batteries. Journal of Applied Electrochemistry, 2018, 48, 1205-1211. | 2.9 | 34 |
| 27 | Influence of Electrolyte Composition on the Electrochemical Reaction Mechanism of Bismuth Fluoride Electrode in Fluoride Shuttle Battery. Journal of Physical Chemistry C, 2019, 123, 10246-10252. | 3.1 | 33 |
| 28 | Triphenylboroxine and Triphenylborane as Anion Acceptors for Electrolyte in Fluoride Shuttle Batteries. Chemistry Letters, 2018, 47, 1346-1349. | 1.3 | 32 |
| 29 | The synergistic effect of nanoporous AuPd alloy catalysts on highly chemoselective 1,4-hydrosilylation of conjugated cyclic enones. Chemical Communications, 2014, 50, 3344. | 4.1 | 31 |
| 30 | Fluoride-Ion Shuttle Battery with High Volumetric Energy Density. Chemistry of Materials, 2021, 33, 459-466. | 6.7 | 31 |
| 31 | Electrochemical properties of lead fluoride electrode in fluoride shuttle battery. Journal of Electroanalytical Chemistry, 2018, 826, 60-64. | 3.8 | 30 |
| 32 | Impact of Lithium-Ion Ordering on Surface Electronic States of Li_xCoO_2 . Physical Review Letters, 2013, 111, 126104. | 7.8 | 29 |
| 33 | Structural Understanding of Superior Battery Properties of Partially Ni-Doped Li ₂ MnO ₃ as Cathode Material. Journal of Physical Chemistry Letters, 2016, 7, 2063-2067. | 4.6 | 29 |
| 34 | Improved electrochemical performances in a bismuth fluoride electrode prepared using a high energy ball mill with carbon for fluoride shuttle batteries. Journal of Electroanalytical Chemistry, 2019, 839, 173-176. | 3.8 | 27 |
| 35 | Electrochemical performance of a lead fluoride electrode mixed with carbon in an electrolyte containing triphenylboroxine as an anion acceptor for fluoride shuttle batteries. Materials Chemistry and Physics, 2019, 226, 1-5. | 4.0 | 25 |
| 36 | Site-selective XAFS spectroscopy tuned to surface active sites of copper catalysts. Journal of Electron Spectroscopy and Related Phenomena, 2001, 119, 193-199. | 1.7 | 24 |

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|----|---|------|-----------|
| 37 | High-resolution molecular images of rubrene single crystals obtained by frequency modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2009, 95, 093302. | 3.3 | 23 |
| 38 | Atomic-Level Viscosity Distribution in the Hydration Layer. <i>Physical Review Letters</i> , 2019, 122, 116001. | 7.8 | 23 |
| 39 | X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry, Improvement of Spectral Resolution at the Absorption Edges of 9 ⁺ 29 keV. <i>Analytical Chemistry</i> , 2005, 77, 6969-6975. | 6.5 | 22 |
| 40 | Tunneling Desorption of Single Hydrogen on the Surface of Titanium Dioxide. <i>ACS Nano</i> , 2015, 9, 6837-6842. | 14.6 | 22 |
| 41 | Difference of rate performance between discharge and charge reactions for bismuth fluoride electrode in lithium-ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2017, 806, 82-87. | 3.8 | 22 |
| 42 | Stabilization of the Electronic Structure at the Cathode/Electrolyte Interface via MgO Ultra-thin Layer during Lithium-ions Insertion/Extraction. <i>Electrochemistry</i> , 2014, 82, 891-896. | 1.4 | 21 |
| 43 | Atomic-Scale Three-Dimensional Local Solvation Structures of Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1343-1348. | 4.6 | 21 |
| 44 | Nanoparticles of Amorphous Ruthenium Sulfide Easily Obtainable from a TiO ₂ -Supported Hexanuclear Cluster Complex [Ru ₆ C(CO) ₁₆] ²⁺ : A Highly Active Catalyst for the Reduction of SO ₂ with H ₂ . <i>Chemistry - A European Journal</i> , 2002, 8, 3260. | 3.3 | 19 |
| 45 | Creation of single oxygen vacancy on titanium dioxide surface. <i>Journal of Materials Research</i> , 2012, 27, 2237-2240. | 2.6 | 19 |
| 46 | Atomic Defects in Titanium Dioxide. <i>Chemical Record</i> , 2014, 14, 923-934. | 5.8 | 19 |
| 47 | Atomic-Scale 3D Local Hydration Structures Influenced by Water-Restricting Dimensions. <i>Langmuir</i> , 2018, 34, 9114-9121. | 3.5 | 17 |
| 48 | Lactone-Based Liquid Electrolytes for Fluoride Shuttle Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 010529. | 2.9 | 14 |
| 49 | Cycling Fading Mechanism for a Bismuth Fluoride Electrode in a Lithium-Ion Battery. <i>ChemistrySelect</i> , 2017, 2, 3504-3510. | 1.5 | 13 |
| 50 | Interface structure between tetraglyme and graphite. <i>Journal of Chemical Physics</i> , 2017, 147, 124701. | 3.0 | 13 |
| 51 | Evolution and Migration of Lithium-Deficient Phases during Electrochemical Delithiation of Large Single Crystals of LiFePO ₄ . <i>ACS Applied Energy Materials</i> , 2018, 1, 1140-1145. | 5.1 | 13 |
| 52 | Reactivity of the anion acceptor in electrolyte: An important factor in achieving high electrochemical performance of a lead (II) fluoride electrode in a fluoride shuttle battery. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114103. | 3.8 | 13 |
| 53 | Reversible Electrochemical Reaction of a Fluoride Shuttle Battery with a Bismuth(III) Fluoride Electrode and Electrolyte Containing Triphenylboroxine as an Anion Acceptor. <i>ChemistrySelect</i> , 2020, 5, 6237-6241. | 1.5 | 12 |
| 54 | Local structural change in Li ₂ FeSiO ₄ polyanion cathode material during initial cycling. <i>Solid State Ionics</i> , 2014, 262, 110-114. | 2.7 | 11 |

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|----|---|-----|-----------|
| 55 | Effect of anion acceptor added to the electrolyte on the electrochemical performance of bismuth(III) fluoride in a fluoride shuttle battery. <i>Chemical Physics Letters</i> , 2020, 755, 137785. | 2.6 | 11 |
| 56 | Electrochemical Performance of BiF ₃ –BaF ₂ Solid Solution with Three Different Phases on a Fluoride Shuttle Battery System. <i>ChemistrySelect</i> , 2020, 5, 4943-4946. | 1.5 | 10 |
| 57 | Influence of LiBOB as an Electrolyte Additive on the Performance of BiF ₃ /C for Fluoride Shuttle Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120508. | 2.9 | 10 |
| 58 | Electrochemical Reaction Mechanism for Bi _{1-x} Ba _x F ₃ (x=0, 0.1, 0.2, and 0.4) Electrodes in Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2017, 2, 6399-6406. | 1.5 | 9 |
| 59 | Charge and Discharge Reactions of a Lead Fluoride Electrode in a Liquid-Based Electrolyte for Fluoride Shuttle Batteries: The Role of Triphenylborane as an Anion Acceptor. <i>ChemistrySelect</i> , 2019, 4, 5984-5987. | 1.5 | 9 |
| 60 | Substituent Effect on the Intermolecular Arrangements of One-Dimensional Molecular Assembly on the Si(100)-(2×1)-H Surface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 270-275. | 3.1 | 7 |
| 61 | Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20099-20107. | 3.1 | 7 |
| 62 | Nitric Oxide Reduction by Carbon Monoxide over Supported Hexaruthenium Cluster Catalysts. 1. The Active Site Structure That Depends on Supporting Metal Oxide and Catalytic Reaction Conditions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9022-9028. | 2.6 | 6 |
| 63 | A novel cationic-ordering fluoro-polyanionic cathode LiV _{0.5} Fe _{0.5} PO ₄ F and its single phase Li+ insertion/extraction behaviour. <i>RSC Advances</i> , 2013, 3, 22935. | 3.6 | 6 |
| 64 | Defluorination/fluorination mechanism of Bi _{0.8} Ba _{0.2} F _{2.8} as a fluoride shuttle battery positive electrode. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115508. | 3.8 | 6 |
| 65 | Site-selective XAFS spectroscopy tuned to surface active sites of Cu/ZnO and Cr/SiO ₂ catalysts. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 605-607. | 2.4 | 5 |
| 66 | Molecular-Scale Solvation Structures of Ionic Liquids on a Heterogeneously Charged Surface. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8094-8099. | 4.6 | 5 |
| 67 | Monitoring Trace Amounts of Lead and Arsenic Adsorption by X-ray Absorption Fine Structure Combined with Fluorescence Spectrometry. <i>Physica Scripta</i> , 2005, , 933. | 2.5 | 4 |
| 68 | Photoresponse on the Desorption of an Atomic Hydrogen on Titanium Dioxide Surface Induced by a Tip of Scanning Tunneling Microscope. <i>Chemistry Letters</i> , 2013, 42, 942-943. | 1.3 | 4 |
| 69 | X-ray Total Scattering of Electrolytes in Liquid-Based Fluoride Shuttle Battery: Electrolyte Composition Dependence of the Low-Q Peak. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000202. | 1.5 | 4 |
| 70 | Atomic-level nature of solid/liquid interface for energy conversion revealed by frequency modulation atomic force microscopy. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SE0806. | 1.5 | 3 |
| 71 | Electronic state observation of inner organic thin films beneath electrodes: Fluorescence-yield X-ray absorption spectra of pentacene derivative films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 93-99. | 1.7 | 2 |
| 72 | Dispersive Electronic States of the π -Orbitals Stacking in Single Molecular Lines on the Si(001)-(2×1)-H Surface. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1199-1204. | 4.6 | 2 |

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|----|---|-----|-----------|
| 73 | Nanoparticles of Amorphous Ruthenium Sulfide Easily Obtainable from a TiO ₂ -Supported Hexanuclear Cluster Complex [Ru ₆ C(CO) ₁₆] ²⁺ : A Highly Active Catalyst for the Reduction of SO ₂ with H ₂ . , 2002, 8, 3260. | | 1 |
| 74 | Supported ruthenium carbido-cluster catalysts for the catalytic removal of nitrogen monoxide and sulfur dioxide: the preparation process monitored by sulfur K-edge X-ray absorption near-edge structure. Studies in Surface Science and Catalysis, 2000, 143, 361-368. | 1.5 | 0 |
| 75 | 32 X-ray absorption fine structure utilizing a fluorescence spectrometer: Site selective structure determination of environmental catalysts and adsorbents. Studies in Surface Science and Catalysis, 2003, 145, 177-180. | 1.5 | 0 |
| 76 | The Electronic State and Spatial Distribution of Excess Charge Created by Oxygen Vacancies on Titanium Dioxide Surfaces. Hyomen Kagaku, 2010, 31, 474-479. | 0.0 | 0 |
| 77 | Study of Behavior of Supporting Electrolyte Ion of Fluoride Shuttle Battery Using Anomalous X-ray Scattering. Advanced Energy and Sustainability Research, 0, , 2200020. | 5.8 | 0 |