

# Takuya Masuda

## List of Publications by Year in descending order

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26  
papers

467  
citations

687363

13  
h-index

794594

19  
g-index

28  
all docs

28  
docs citations

28  
times ranked

730  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Instrumentation for tracking electrochemical reactions by x-ray photoelectron spectroscopy under conventional vacuum conditions. <i>Journal of Physics Communications</i> , 2021, 5, 015001.  | 1.2  | 4         |
| 2  | Reactions of the $\text{Li}_2\text{MnO}_3$ Cathode in an All-Solid-State Thin-Film Battery during Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7650-7663.   | 8.0  | 13        |
| 3  | Crystalline boron monosulfide nanosheets with tunable bandgaps. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24631-24640.   | 10.3 | 21        |
| 4  | Nanosized and metastable molybdenum oxides as negative electrode materials for durable high-energy aqueous Li-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .                      | 7.1  | 15        |
| 5  | Lithiation/delithiation of a Silicon Thin Film Electrode for All-Solid-State Batteries Using Operando X-ray Photoelectron Spectroscopy Apparatus. <i>Vacuum and Surface Science</i> , 2021, 64, 552-555.  | 0.1  | 0         |
| 6  | <i>In Situ</i> Observation of Lithiation and Delithiation Reactions of a Silicon Thin Film Electrode for All-Solid-State Lithium-Ion Batteries by X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6649-6654. | 4.6  | 29        |
| 7  | Solvent-Dependent Adsorption of Perfluorosulfonated Ionomers on a Pt(111) Surface Using Atomic Force Microscopy. <i>Langmuir</i> , 2020, 36, 13793-13798.   | 3.5  | 7         |
| 8  | Annual Meeting of JVSS 2019 at Tsukuba. <i>Vacuum and Surface Science</i> , 2020, 63, 329-329.  | 0.1  | 0         |
| 9  | SR Applications for Fuel Cell Electrodes. <i>Synchrotron Radiation News</i> , 2020, 33, 27-33.  | 0.8  | 0         |
| 10 | <i>In situ</i> X-ray photoelectron spectroscopy using a conventional Al-K $\alpha$ source and an environmental cell for liquid samples and solid-liquid interfaces. <i>Applied Physics Letters</i> , 2019, 114, .                                       | 3.3  | 16        |
| 11 | Surface State Change of Lithium Metal Anode in Full Cell during Long Term Cycles. <i>Electrochemistry</i> , 2019, 87, 84-88.  | 1.4  | 15        |
| 12 | Quantitative cross-sectional mapping of nanomechanical properties of composite films for lithium ion batteries using bimodal mode atomic force microscopy. <i>Journal of Power Sources</i> , 2019, 413, 29-33.  | 7.8  | 11        |
| 13 | X-ray Photoelectron Spectroscopy for Solution Species Using a Laboratory Apparatus. <i>Vacuum and Surface Science</i> , 2019, 62, 564-567.  | 0.1  | 0         |
| 14 | Semiconductor-Based Photoelectrochemical Conversion of Carbon Dioxide: Stepping Towards Artificial Photosynthesis. <i>Chemistry - an Asian Journal</i> , 2018, 13, 127-142.   | 3.3  | 47        |
| 15 | Preparation and Characterization of Rice Husks-Derived Silicon-Tin/Nitrogen-Doped Reduced Graphene Oxide Nanocomposites as Anode Materials for Lithium-Ion Batteries. <i>Solid State Phenomena</i> , 2018, 283, 46-54.                                  | 0.3  | 2         |
| 16 | Various spectroelectrochemical cells for in situ observation of electrochemical processes at solid-liquid interfaces. <i>Topics in Catalysis</i> , 2018, 61, 2103-2113.   | 2.8  | 10        |
| 17 | Change in Surface Chemistry of Magnesium by Alkylbromide Immersion Pretreatment. <i>Electrochemistry</i> , 2018, 86, 226-228.   | 1.4  | 0         |
| 18 | Back to the Arizona. <i>Hyomen Kagaku</i> , 2017, 38, 44-45.  | 0.0  | 0         |

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|----|---|------|-----------|
| 19 | Design of Low Pt Concentration Electrocatalyst Surfaces with High Oxygen Reduction Reaction Activity Promoted by Formation of a Heterogeneous Interface between Pt and CeO <sub>2</sub> Nanowire. ACS Applied Materials & Interfaces, 2016, 8, 9059-9070.     | 8.0  | 44        |
| 20 | Potential-Dependent Adsorption and Desorption of Perfluorosulfonated Ionomer on a Platinum Electrode Surface Probed by Electrochemical Quartz Crystal Microbalance and Atomic Force Microscopy. Journal of Physical Chemistry C, 2013, 117, 15704-15709.      | 3.1  | 48        |
| 21 | Potential-Dependent Adsorption/Desorption Behavior of Perfluorosulfonated Ionomer on a Gold Electrode Surface Studied by Cyclic Voltammetry, Electrochemical Quartz Microbalance, and Electrochemical Atomic Force Microscopy. Langmuir, 2013, 29, 2420-2426. | 3.5  | 34        |
| 22 | Formation of Functionalized Nanowires by Control of Self-Assembly Using Multiple Modified Amyloid Peptides. Advanced Functional Materials, 2013, 23, 4881-4887.   | 14.9 | 24        |
| 23 | <i>In situ</i> x-ray photoelectron spectroscopy for electrochemical reactions in ordinary solvents. Applied Physics Letters, 2013, 103, .   | 3.3  | 89        |
| 24 | Self-Assembly: Formation of Functionalized Nanowires by Control of Self-Assembly Using Multiple Modified Amyloid Peptides (Adv. Funct. Mater. 39/2013). Advanced Functional Materials, 2013, 23, 4880-4880.   | 14.9 | 0         |
| 25 | Formation and Structure of Perfluorosulfonated Ionomer Thin Film on a Graphite Surface. Chemistry Letters, 2009, 38, 884-885.   | 1.3  | 29        |
| 26 | Nanostructural Study of Silicon-Cobalt/Nitrogen-Doped Reduced Graphene Oxide Composites by Electron Microscopy for Using as Anode Material in Lithium-Ion Batteries. Solid State Phenomena, 0, 283, 37-45.  | 0.3  | 4         |