# Ben Breitung

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 56<br>papers | 3,257<br>citations | 218677<br>26<br>h-index | 168389<br>53<br>g-index |
| 61<br>all docs | 61<br>docs citations | 61<br>times ranked | 3089<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Determining role of individual cations in high entropy oxides: Structure and reversible tuning of optical properties. Scripta Materialia, 2022, 207, 114273. | 5.2 | 15 |
| 2 | Highâ€Entropy Sulfides as Electrode Materials for Liâ€Ion Batteries. Advanced Energy Materials, 2022, 12, . | 19.5 | 57 |
| 3 | Timeâ€Dependent Cation Selectivity of Titanium Carbide MXene in Aqueous Solution. Advanced Sustainable Systems, 2022, 6, . | 5.3 | 4 |
| 4 | Highâ€Entropy Sulfides as Electrode Materials for Liâ€Ion Batteries (Adv. Energy Mater. 8/2022). Advanced Energy Materials, 2022, 12, . | 19.5 | 1 |
| 5 | Acoustic Emission Monitoring of High-Entropy Oxyfluoride Rock-Salt Cathodes during Battery Operation. Coatings, 2022, 12, 402. | 2.6 | 8 |
| 6 | Resolving the Role of Configurational Entropy in Improving Cycling Performance of Multicomponent Hexacyanoferrate Cathodes for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 37 |
| 7 | High entropy fluorides as conversion cathodes with tailorable electrochemical performance. Journal of Energy Chemistry, 2022, 72, 342-351. | 12.9 | 14 |
| 8 | High Entropy and Low Symmetry: Triclinic High-Entropy Molybdates. Inorganic Chemistry, 2021, 60, 115-123. | 4.0 | 10 |
| 9 | Mechanochemical synthesis of novel rutile-type high entropy fluorides for electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 8998-9009. | 10.3 | 45 |
| 10 | High-entropy energy materials: challenges and new opportunities. Energy and Environmental Science, 2021, 14, 2883-2905. | 30.8 | 282 |
| 11 | Highâ€Entropy Metalâ€“Organic Frameworks for Highly Reversible Sodium Storage. Advanced Materials, 2021, 33, e2101342. | 21.0 | 97 |
| 12 | Highâ€Entropy Metalâ€“Organic Frameworks for Highly Reversible Sodium Storage (Adv. Mater. 34/2021). Advanced Materials, 2021, 33, 2170269. | 21.0 | 4 |
| 13 | Highâ€Entropy Energy Materials in the Age of Big Data: A Critical Guide to Nextâ€Generation Synthesis and Applications. Advanced Energy Materials, 2021, 11, 2102355. | 19.5 | 37 |
| 14 | Operando acoustic emission monitoring of degradation processes in lithium-ion batteries with a high-entropy oxide anode. Scientific Reports, 2021, 11, 23381. | 3.3 | 8 |
| 15 | Mechanochemical synthesis: route to novel rock-salt-structured high-entropy oxides and oxyfluorides. Journal of Materials Science, 2020, 55, 16879-16889. | 3.7 | 15 |
| 16 | Adhesive Ionâ€Gel as Gate Insulator of Electrolyteâ€Gated Transistors. ChemElectroChem, 2020, 7, 2692-2692. | 3.4 | 0 |
| 17 | Tailored Silicon/Carbon Compounds for Printed Liâ€“Ion Anodes. Batteries and Supercaps, 2020, 3, 671-671. | 4.7 | 0 |
| 18 | Lithium containing layered high entropy oxide structures. Scientific Reports, 2020, 10, 18430. | 3.3 | 47 |

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|---|---|---|---|
| 19 | ALD-Derived, Low-Density Alumina as Solid Electrolyte in Printed Low-Voltage FETs. IEEE Transactions on Electron Devices, 2020, 67, 3828-3833. | 3.0 | 3 |
| 20 | High entropy oxides: The role of entropy, enthalpy and synergy. Scripta Materialia, 2020, 187, 43-48. | 5.2 | 165 |
| 21 | Fully Printed Inverters using Metalâ€Oxide Semiconductor and Graphene Passives on Flexible Substrates. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000252. | 2.4 | 11 |
| 22 | Gassing Behavior of Highâ€Entropy Oxide Anode and Oxyfluoride Cathode Probed Using Differential Electrochemical Mass Spectrometry. Batteries and Supercaps, 2020, 3, 361-369. | 4.7 | 31 |
| 23 | Spinel to Rock-Salt Transformation in High Entropy Oxides with Li Incorporation. Electrochem, 2020, 1, 60-74. | 3.3 | 35 |
| 24 | Tailored Silicon/Carbon Compounds for Printed Liâ€“Ion Anodes. Batteries and Supercaps, 2020, 3, 713-720. | 4.7 | 5 |
| 25 | Adhesive Ionâ€Gel as Gate Insulator of Electrolyteâ€Gated Transistors. ChemElectroChem, 2020, 7, 2735-2739. | 3.4 | 2 |
| 26 | Printing Technologies for Integration of Electronic Devices and Sensors. NATO Science for Peace and Security Series C: Environmental Security, 2020, , 1-34. | 0.2 | 4 |
| 27 | Development of Fully Printed Electrolyte-Gated Oxide Transistors Using Graphene Passive Structures. ACS Applied Electronic Materials, 2019, 1, 1538-1544. | 4.3 | 19 |
| 28 | Highâ€Entropy Oxides: Highâ€Entropy Oxides: Fundamental Aspects and Electrochemical Properties (Adv.) Tj ETQq0 0 0 rgBT /Overlock | 21.0 | 10 |
| 29 | Thin Films of Thermally Stable Ordered Mesoporous Rh<sub>2</sub>O<sub>3</sub>(I) for Visible-Light Photocatalysis and Humidity Sensing. ACS Applied Nano Materials, 2019, 2, 7126-7133. | 5.0 | 9 |
| 30 | Inkâ€Jet Printable, Selfâ€Assembled, and Chemically Crosslinked Ionâ€Gel as Electrolyte for Thin Film, Printable Transistors. Advanced Materials Interfaces, 2019, 6, 1901074. | 3.7 | 11 |
| 31 | Reversible control of magnetism: on the conversion of hydrated FeF<sub>3</sub> with Li to Fe and LiF. Journal of Materials Chemistry A, 2019, 7, 24005-24011. | 10.3 | 6 |
| 32 | High entropy oxides as anode material for Li-ion battery applications: A practical approach. Electrochemistry Communications, 2019, 100, 121-125. | 4.7 | 125 |
| 33 | Multi-anionic and -cationic compounds: new high entropy materials for advanced Li-ion batteries. Energy and Environmental Science, 2019, 12, 2433-2442. | 30.8 | 241 |
| 34 | Highâ€Entropy Oxides: Fundamental Aspects and Electrochemical Properties. Advanced Materials, 2019, 31, e1806236. | 21.0 | 412 |
| 35 | On the homogeneity of high entropy oxides: An investigation at the atomic scale. Scripta Materialia, 2019, 166, 58-63. | 5.2 | 90 |
| 36 | Influence of Humidity on the Performance of Composite Polymer Electrolyte-Gated Field-Effect Transistors and Circuits. IEEE Transactions on Electron Devices, 2019, 66, 2202-2207. | 3.0 | 35 |

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|---|---|---|---|
| 37 | Electrolyteâ€Gated Transistors: Inkâ€Jet Printable, Selfâ€Assembled, and Chemically Crosslinked Ionâ€Gel as Electrolyte for Thin Film, Printable Transistors (Adv. Mater. Interfaces 21/2019). Advanced Materials Interfaces, 2019, 6, 1970132. | 3.7 | 0 |
| 38 | Tailoring Threshold Voltages of Printed Electrolyte-Gated Field-Effect Transistors by Chromium Doping of Indium Oxide Channels. ACS Omega, 2019, 4, 20579-20585. | 3.5 | 5 |
| 39 | Artificial Composite Anode Comprising Highâ€Capacity Silicon and Carbonaceous Nanostructures for Long Cycle Life Lithiumâ€Ion Batteries. Batteries and Supercaps, 2018, 1, 27-32. | 4.7 | 8 |
| 40 | Facile synthesis of Câ€“FeF<sub>2</sub> nanocomposites from CFx: influence of carbon precursor on reversible lithium storage. RSC Advances, 2018, 8, 36802-36811. | 3.6 | 13 |
| 41 | Silicon Nanoparticles with a Polymer-Derived Carbon Shell for Improved Lithium-Ion Batteries: Investigation into Volume Expansion, Gas Evolution, and Particle Fracture. ACS Omega, 2018, 3, 16706-16713. | 3.5 | 27 |
| 42 | Printed Electronics Based on Inorganic Semiconductors: From Processes and Materials to Devices. Advanced Materials, 2018, 30, e1707600. | 21.0 | 148 |
| 43 | High entropy oxides for reversible energy storage. Nature Communications, 2018, 9, 3400. | 12.8 | 643 |
| 44 | Formation of nanocrystalline graphene on germanium. Nanoscale, 2018, 10, 12156-12162. | 5.6 | 10 |
| 45 | [Ag<sub>115</sub>S<sub>34</sub>(SCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub><sup>t</sup>Bu)<sub>47</sub>(dpph)<su synthesis, crystal structure and NMR investigations of a soluble silver chalcogenide nanocluster. Chemical Science, 2017, 8, 2235-2240. | 7.4 | 55 |
| 46 | Embroidered Copper Microwire Current Collector for Improved Cycling Performance of Silicon Anodes in Lithium-Ion Batteries. Scientific Reports, 2017, 7, 13010. | 3.3 | 12 |
| 47 | The Critical Role of Fluoroethylene Carbonate in the Gassing of Silicon Anodes for Lithium-Ion Batteries. ACS Energy Letters, 2017, 2, 2228-2233. | 17.4 | 97 |
| 48 | Microwave synthesis of high-quality and uniform 4 nm ZnFe<sub>2</sub>O<sub>4</sub> nanocrystals for application in energy storage and nanomagnetics. Beilstein Journal of Nanotechnology, 2016, 7, 1350-1360. | 2.8 | 32 |
| 49 | Facile Synthesis of Carbonâ€“Metal Fluoride Nanocomposites for Lithiumâ€Ion Batteries. Energy Technology, 2016, 4, 201-211. | 3.8 | 14 |
| 50 | In situ and operando atomic force microscopy of high-capacity nano-silicon based electrodes for lithium-ion batteries. Nanoscale, 2016, 8, 14048-14056. | 5.6 | 64 |
| 51 | Hierarchical Carbon with High Nitrogen Doping Level: A Versatile Anode and Cathode Host Material for Long-Life Lithium-Ion and Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 10274-10282. | 8.0 | 49 |
| 52 | Improving the Energy Density and Power Density of CF<sub>x</sub> by Mechanical Milling: A Primary Lithium Battery Electrode. ACS Applied Materials & Interfaces, 2013, 5, 11207-11211. | 8.0 | 60 |
| 53 | Energy Storage: CFx Derived Carbonâ€“FeF<sub>2</sub> Nanocomposites for Reversible Lithium Storage (Adv. Energy Mater. 3/2013). Advanced Energy Materials, 2013, 3, 274-274. | 19.5 | 1 |
| 54 | CFx Derived Carbonâ€“FeF<sub>2</sub> Nanocomposites for Reversible Lithium Storage. Advanced Energy Materials, 2013, 3, 308-313. | 19.5 | 76 |

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|---|---|---|---|
| 55 | Influence of particle size and fluorination ratio of CF<sub>x</sub> precursor compounds on the electrochemical performance of Câ€“FeF<sub>2</sub> nanocomposites for reversible lithium storage. Beilstein Journal of Nanotechnology, 2013, 4, 705-713. | 2.8 | 19 |
| 56 | Functionalised Silver Chalcogenide Clusters. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 995-1006. | 1.2 | 28 |