

Joel A Haber

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,613
citations

361296

20
h-index

360920

35
g-index

38
all docs

38
docs citations

38
times ranked

2284
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovering Ce-rich oxygen evolution catalysts, from high throughput screening to water electrolysis. <i>Energy and Environmental Science</i> , 2014, 7, 682-688.	15.6	165
2	An Operando Investigation of (Ni _x Fe _{1-x} Co _{1-x} Ce) ₂ O ₃ System as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 1248-1258.	5.5	156
3	Analysis of the limitations in the oxygen reduction activity of transition metal oxide surfaces. <i>Nature Catalysis</i> , 2021, 4, 463-468.	16.1	156
4	Rutile Alloys in the Mn ₂ SbO ₇ System Stabilize Mn ³⁺ To Enable Oxygen Evolution in Strong Acid. <i>ACS Catalysis</i> , 2018, 8, 10938-10948.	5.5	97
5	One-Step Synthesis and Optical and Electrical Properties of Thin Film Cu ₃ BiS ₃ for Use as a Solar Absorber in Photovoltaic Devices. <i>Chemistry of Materials</i> , 2006, 18, 6297-6302.	3.2	95
6	Multiphase Nanostructure of a Quinary Metal Oxide Electrocatalyst Reveals a New Direction for OER Electrocatalyst Design. <i>Advanced Energy Materials</i> , 2015, 5, 1402307.	10.2	85
7	Benchmarking the acceleration of materials discovery by sequential learning. <i>Chemical Science</i> , 2020, 11, 2696-2706.	3.7	83
8	High Throughput Discovery of Solar Fuels Photoanodes in the Cu ₂ VO ₅ System. <i>Advanced Energy Materials</i> , 2015, 5, 1500968.	10.2	82
9	High-Throughput Mapping of the Electrochemical Properties of (Ni _x Fe _{1-x} Co _{1-x} Ce) ₂ O ₃ Oxygen Evolution Catalysts. <i>ChemElectroChem</i> , 2014, 1, 524-528.	1.7	71
10	Multigram synthesis of copper nanowires using ac electrodeposition into porous aluminium oxide templates. <i>Journal of Materials Chemistry</i> , 2006, 16, 3075.	6.7	69
11	Development of solar fuels photoanodes through combinatorial integration of Ni _x La _{1-x} Co _{1-x} Ce oxide catalysts on BiVO ₄ . <i>Energy and Environmental Science</i> , 2016, 9, 565-580.	15.6	61
12	High-Throughput Screening for Acid-Stable Oxygen Evolution Electrocatalysts in the (Mn _x Co _{1-x} Ta _{1-x} Sb) ₂ O ₇ Composition Space. <i>Electrocatalysis</i> , 2015, 6, 229-236.	1.5	53
13	Electrostatically Dissipative Polystyrene Nanocomposites containing Copper Nanowires. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1677-1681.	2.0	48
14	Synthesis of Cu ₃ BiS ₃ Thin Films by Heating Metal and Metal Sulfide Precursor Films under Hydrogen Sulfide. <i>Chemistry of Materials</i> , 2006, 18, 6289-6296.	3.2	37
15	Discovery of Fe ₂ O ₃ /BiVO ₄ Photoanodes through Combinatorial Exploration of Ni _x Fe _{1-x} Co _{1-x} Ce Oxide Coatings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23696-23705.	4.0	35
16	Successes and Opportunities for Discovery of Metal Oxide Photoanodes for Solar Fuels Generators. <i>ACS Energy Letters</i> , 2020, 5, 1413-1421.	8.8	30
17	Discovery of New Oxygen Evolution Reaction Electrocatalysts by Combinatorial Investigation of the Ni _x La _{1-x} Co _{1-x} Ce Oxide Composition Space. <i>ChemElectroChem</i> , 2014, 1, 1613-1617.	1.7	29
18	Interface engineering for light-driven water oxidation: unravelling the passivating and catalytic mechanism in BiVO ₄ overlayers. <i>Sustainable Energy and Fuels</i> , 2019, 3, 127-135.	2.5	28

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19	Fermi Level Engineering of Passivation and Electron Transport Materials for p-Type CuBi_2O_4 Employing a High-Throughput Methodology. <i>Advanced Functional Materials</i> , 2020, 30, 2000948.	7.8	28
20	Functional mapping reveals mechanistic clusters for OER catalysis across $(\text{Cu}^x\text{Mn}^y\text{Ta}^z\text{Co}^w\text{Sn}^v\text{Fe})\text{O}_x$ composition and pH space. <i>Materials Horizons</i> , 2019, 6, 1251-1258.	6.4	22
21	Combinatorial alloying improves bismuth vanadate photoanodes <i>via</i> reduced monoclinic distortion. <i>Energy and Environmental Science</i> , 2018, 11, 2444-2457.	15.6	21
22	Discovery of complex oxides via automated experiments and data science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
23	Stability and Activity of Cobalt Antimonate for Oxygen Reduction in Strong Acid. <i>ACS Energy Letters</i> , 2022, 7, 993-1000.	8.8	21
24	The role of the $\text{CeO}_2/\text{BiVO}_4$ interface in optimized Fe^xCe oxide coatings for solar fuels photoanodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14356-14363.	5.2	19
25	Overcoming Hurdles in Oxygen Evolution Catalyst Discovery via Codesign. <i>Chemistry of Materials</i> , 2022, 34, 899-910.	3.2	17
26	Quaternary Oxide Photoanode Discovery Improves the Spectral Response and Photovoltage of Copper Vanadates. <i>Matter</i> , 2020, 3, 1614-1630.	5.0	16
27	Multi-modal optimization of bismuth vanadate photoanodes <i>via</i> combinatorial alloying and hydrogen processing. <i>Chemical Communications</i> , 2019, 55, 489-492.	2.2	15
28	Colorimetric Screening for High-Throughput Discovery of Light Absorbers. <i>ACS Combinatorial Science</i> , 2015, 17, 176-181.	3.8	12
29	Parallel Electrochemical Treatment System and Application for Identifying Acid-Stable Oxygen Evolution Electrocatalysts. <i>ACS Combinatorial Science</i> , 2015, 17, 71-75.	3.8	12
30	Enhanced Bulk Transport in Copper Vanadate Photoanodes Identified by Combinatorial Alloying. <i>Matter</i> , 2020, 3, 1601-1613.	5.0	8
31	High Throughput Discovery of Complex Metal Oxide Electrocatalysts for the Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2022, 13, 1-10.	1.5	7
32	Molecular Coatings Improve the Selectivity and Durability of CO_2 Reduction Chalcogenide Photocathodes. <i>ACS Energy Letters</i> , 2022, 7, 1195-1201.	8.8	6
33	Bi Alloying into Rare Earth Double Perovskites Enhances Synthesizability and Visible Light Absorption. <i>ACS Combinatorial Science</i> , 2020, 22, 895-901.	3.8	5
34	Balancing Surface Passivation and Catalysis with Integrated $\text{BiVO}_4/(\text{Fe}^x\text{Ce})\text{O}_x$ Photoanodes in pH 9 Borate Electrolyte. <i>ACS Applied Energy Materials</i> , 2018, .	2.5	2
35	Combinatorial Synthesis of Oxysulfides in the Lanthanum-Bismuth-Copper System. <i>ACS Combinatorial Science</i> , 2020, 22, 319-326.	3.8	1
36	AC Electrodeposition of Uniform High Aspect-Ratio Metal Nanowires in Porous Aluminum Oxide Templates. <i>Materials Research Society Symposia Proceedings</i> , 2005, 879, 1.	0.1	0

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37	Physical Vapor Deposition Synthesis of Cu ₃ BiS ₃ for Application in Thin Film Photovoltaics. Materials Research Society Symposia Proceedings, 2005, 865, 521.	0.1	0
38	Preparation of Copper Nanowire/Polymer Nanocomposites by Melt Mixing. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	0