

# Anthony Vasileff

## List of Publications by Citations

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54  
papers

9,143  
citations

39  
h-index

57  
g-index

57  
ext. papers

11,369  
ext. citations

14.9  
avg, IF

7.01  
L-index

#	Paper	IF	Citations
54	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , <b>2018</b> , 118, 6337-6408	68.1	1057
53	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH <sub>3</sub> ) under ambient conditions. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 45-56	35.4	887
52	Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3336-3339	16.4	816
51	The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7568-7579	16.4	659
50	Design Strategies toward Advanced MOF-Derived Electrocatalysts for Energy-Conversion Reactions. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700518	21.8	406
49	Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO <sub>2</sub> Electroreduction. <i>CheM</i> , <b>2018</b> , 4, 1809-1831	16.2	372
48	Understanding the Roadmap for Electrochemical Reduction of CO to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7646-7659	16.4	371
47	Anion and Cation Modulation in Metal Compounds for Bifunctional Overall Water Splitting. <i>ACS Nano</i> , <b>2016</b> , 10, 8738-45	16.7	310
46	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702524	15.6	265
45	S-NiFe <sub>2</sub> O <sub>4</sub> ultra-small nanoparticle built nanosheets for efficient water splitting in alkaline and neutral pH. <i>Nano Energy</i> , <b>2017</b> , 40, 264-273	17.1	258
44	Carbon Solving Carbon's Problems: Recent Progress of Nanostructured Carbon-Based Catalysts for the Electrochemical Reduction of CO <sub>2</sub> . <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700759	21.8	250
43	Self-Supported Earth-Abundant Nanoarrays as Efficient and Robust Electrocatalysts for Energy-Related Reactions. <i>ACS Catalysis</i> , <b>2018</b> , 8, 6707-6732	13.1	240
42	Recent Advances in Atomic Metal Doping of Carbon-based Nanomaterials for Energy Conversion. <i>Small</i> , <b>2017</b> , 13, 1700191	11	235
41	Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> )-Derived N-Rich Graphene with Tuneable Interlayer Distance as a High-Rate Anode for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901261	24	232
40	Size Fractionation of Two-Dimensional Sub-Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3804-8	16.4	225
39	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 805-810	20.1	188
38	Single-Crystal Nitrogen-Rich Two-Dimensional MoN Nanosheets for Efficient and Stable Seawater Splitting. <i>ACS Nano</i> , <b>2018</b> , 12, 12761-12769	16.7	171

37	Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. <i>Advanced Materials</i> , <b>2019</b> , 31, e1803625	24	163
36	NiO as a Bifunctional Promoter for RuO toward Superior Overall Water Splitting. <i>Small</i> , <b>2018</b> , 14, e1704073		147
35	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12252-12257	16.4	127
34	Constructing tunable dual active sites on two-dimensional C <sub>3</sub> N <sub>4</sub> @MoN hybrid for electrocatalytic hydrogen evolution. <i>Nano Energy</i> , <b>2018</b> , 53, 690-697	17.1	126
33	Strain Effect in Bimetallic Electrocatalysts in the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1198-1204	20.1	124
32	3D Synergistically Active Carbon Nanofibers for Improved Oxygen Evolution. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602928	21.8	111
31	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707261	24	110
30	Selectivity Control for Electrochemical CO <sub>2</sub> Reduction by Charge Redistribution on the Surface of Copper Alloys. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9411-9417	13.1	106
29	Identification of pH-dependent synergy on Ru/MoS interface: a comparison of alkaline and acidic hydrogen evolution. <i>Nanoscale</i> , <b>2017</b> , 9, 16616-16621	7.7	95
28	Nanostructured 2D Materials: Prospective Catalysts for Electrochemical CO <sub>2</sub> Reduction. <i>Small Methods</i> , <b>2017</b> , 1, 1600006	12.8	92
27	Free-standing single-crystalline NiFe-hydroxide nanoflake arrays: a self-activated and robust electrocatalyst for oxygen evolution. <i>Chemical Communications</i> , <b>2018</b> , 54, 463-466	5.8	91
26	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8117-8121	13	86
25	In Situ Fragmented Bismuth Nanoparticles for Electrocatalytic Nitrogen Reduction. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001289	21.8	81
24	Stable and Highly Efficient Hydrogen Evolution from Seawater Enabled by an Unsaturated Nickel Surface Nitride. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007508	24	81
23	Polydopamine-inspired nanomaterials for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21827-21846	13	74
22	Selectivity roadmap for electrochemical CO <sub>2</sub> reduction on copper-based alloy catalysts. <i>Nano Energy</i> , <b>2020</b> , 71, 104601	17.1	65
21	Die Wasserstoffentwicklungsreaktion in alkalischer Lösung: Von der Theorie und Einkristallmodellen zu praktischen Elektrokatalysatoren. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7690-7702	3.6	64
20	Electrochemical Reduction of CO to Ethane through Stabilization of an Ethoxy Intermediate. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19649-19653	16.4	61

19	Hierarchical 1T-MoS <sub>2</sub> nanotubular structures for enhanced supercapacitive performance. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23704-23711	13	47
18	Three dimensional nitrogen-doped graphene hydrogels with in situ deposited cobalt phosphate nanoclusters for efficient oxygen evolution in a neutral electrolyte. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 41-44	10.8	46
17	Highly Selective Two-Electron Electrocatalytic CO <sub>2</sub> Reduction on Single-Atom Cu Catalysts. <i>Small Structures</i> , <b>2021</b> , 2, 2000058	8.7	44
16	Size Fractionation of Two-Dimensional Sub-Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3868-3872	3.6	42
15	Bronze alloys with tin surface sites for selective electrochemical reduction of CO. <i>Chemical Communications</i> , <b>2018</b> , 54, 13965-13968	5.8	37
14	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO Reduction through Electrolyte and Potential Mediation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18178-18184	16.4	35
13	Role of oxygen-bound reaction intermediates in selective electrochemical CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3912-3930	35.4	27
12	Recent Progress of 3d Transition Metal Single-Atom Catalysts for Electrochemical CO <sub>2</sub> Reduction. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001904	4.6	22
11	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12380-12385	3.6	19
10	Efficient Surface Modulation of Single-Crystalline Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanotube Arrays with Ti <sup>3+</sup> Self-Doping toward Superior Sodium Storage <b>2019</b> , 1, 389-398		15
9	Electrochemical Reduction of CO <sub>2</sub> to Ethane through Stabilization of an Ethoxy Intermediate. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19817-19821	3.6	14
8	Synergistic catalysis between atomically dispersed Fe and a pyrrolic-N-C framework for CO <sub>2</sub> electroreduction. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1411-1415	10.8	14
7	Graphene-encapsulated nickel-copper bimetallic nanoparticle catalysts for electrochemical reduction of CO to CO. <i>Chemical Communications</i> , <b>2020</b> , 56, 11275-11278	5.8	13
6	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. <i>Chemical Communications</i> , <b>2019</b> , 55, 8313-8316	5.8	7
5	Hydrogenated dual-shell sodium titanate cubes for sodium-ion batteries with optimized ion transportation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15829-15833	13	7
4	The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 26, 3898	4.8	5
3	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO <sub>2</sub> Reduction through Electrolyte and Potential Mediation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18326-18332	3.6	1
2	Carbon-Based Electrochemical Oxygen Reduction and Hydrogen Evolution Catalysts <b>2018</b> , 403-455		1

- 1 Innentitelbild: Electrochemical Reduction of CO<sub>2</sub> to Ethane through Stabilization of an Ethoxy Intermediate (Angew. Chem. 44/2020). *Angewandte Chemie*, **2020**, 132, 19530-19530 3.6