

Virgil Andrei

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,410
citations

394421

19
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

2156
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalized Cellulose for Water Purification, Antimicrobial Applications, and Sensors. <i>Advanced Functional Materials</i> , 2018, 28, 1800409.	14.9	192
2	Bias-free solar syngas production by integrating a molecular cobalt catalyst with perovskiteâ€“BiVO ₄ tandems. <i>Nature Materials</i> , 2020, 19, 189-194.	27.5	175
3	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. <i>Nature Energy</i> , 2020, 5, 703-710.	39.5	156
4	Scalable Triple Cation Mixed Halide Perovskiteâ€“BiVO ₄ Tandems for Biasâ€“Free Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801403.	19.5	128
5	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10595-10599.	13.8	93
6	Extending the Compositional Space of Mixed Lead Halide Perovskites by Cs, Rb, K, and Na Doping. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13548-13557.	3.1	70
7	Integration of a Hydrogenase in a Lead Halide Perovskite Photoelectrode for Tandem Solar Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 232-237.	17.4	68
8	Reforming of Soluble Biomass and Plastic Derived Waste Using a Biasâ€“Free Cu ₃₀ Pd ₇₀ Perovskite Pt Photoelectrochemical Device. <i>Advanced Functional Materials</i> , 2022, 32, 2109313.	14.9	51
9	Singleâ€“Source Bismuth (Transition Metal) Polyoxovanadate Precursors for the Scalable Synthesis of Doped BiVO ₄ Photoanodes. <i>Advanced Materials</i> , 2018, 30, e1804033.	21.0	47
10	Thermoelectricity in the context of renewable energy sources: joining forces instead of competing. <i>Energy and Environmental Science</i> , 2016, 9, 1528-1532.	30.8	46
11	Triple-Cation-Based Perovskite Photocathodes with AZO Protective Layer for Hydrogen Production Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23198-23206.	8.0	46
12	Size Dependence of Electrical Conductivity and Thermoelectric Enhancements in Spinâ€“Coated PEDOT:PSS Single and Multiple Layers. <i>Advanced Electronic Materials</i> , 2017, 3, 1600473.	5.1	42
13	Long-term solar water and CO ₂ splitting with photoelectrochemical BiOIâ€“BiVO ₄ tandems. <i>Nature Materials</i> , 2022, 21, 864-868.	27.5	41
14	Bifunctional Perovskiteâ€“BiVO ₄ Tandem Devices for Uninterrupted Solar and Electrocatalytic Water Splitting Cycles. <i>Advanced Functional Materials</i> , 2021, 31, 2008182.	14.9	36
15	A Semiâ€“Artificial Photoelectrochemical Tandem Leaf with a CO ₂ â€“toâ€“Formate Efficiency Approaching 1â€“%. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26303-26307.	13.8	34
16	Adjusting the thermoelectric properties of copper (<sc>i</sc>) oxideâ€“graphiteâ€“polymer pastes and the applications of such flexible composites. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10700-10707.	2.8	33
17	Selective CO production from aqueous CO ₂ using a Cu ₉₆ In ₄ catalyst and its integration into a bias-free solar perovskiteâ€“BiVO ₄ tandem device. <i>Energy and Environmental Science</i> , 2020, 13, 3536-3543.	30.8	32
18	In Situ Complementary Doping, Thermoelectric Improvements, and Strain-Induced Structure within Alternating PEDOT:PSS/PANI Layers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33308-33316.	8.0	30

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19	Copper(I) oxide based thermoelectric powders and pastes with high Seebeck coefficients. Applied Physics Letters, 2014, 105, .	3.3	22
20	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. Angewandte Chemie, 2018, 130, 10755-10759.	2.0	16
21	The effect of post-deposition annealing conditions on structural and thermoelectric properties of sputtered copper oxide films. RSC Advances, 2020, 10, 29394-29401.	3.6	13
22	Automated synthesis and characterization techniques for solar fuel production. Nature Reviews Materials, 2022, 7, 251-253.	48.7	11
23	Decreasing the Effective Thermal Conductivity in Glass Supported Thermoelectric Layers. PLoS ONE, 2016, 11, e0151708.	2.5	10
24	Synthetic approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 242-281.	3.2	5
25	A Semi-artificial Photoelectrochemical Tandem Leaf with a CO ₂ -to-Formate Efficiency Approaching 1%. Angewandte Chemie, 2021, 133, 26507-26511.	2.0	4
26	Single-Source Deposition of Mixed-Metal Oxide Films Containing Zirconium and 3d Transition Metals for (Photo)electrocatalytic Water Oxidation. Inorganic Chemistry, 2022, 61, 6223-6233.	4.0	4
27	Demonstrator devices for artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 345-363.	3.2	2
28	Water-Assisted Growth: Bifunctional Perovskite-BiVO ₄ Tandem Devices for Uninterrupted Solar and Electrocatalytic Water Splitting Cycles (Adv. Funct. Mater. 15/2021). Advanced Functional Materials, 2021, 31, 2170104.	14.9	2
29	1/4ctitelbild: A Semi-artificial Photoelectrochemical Tandem Leaf with a CO ₂ -to-Formate Efficiency Approaching 1% (Angew. Chem. 50/2021). Angewandte Chemie, 2021, 133, 26616-26616.	2.0	1
30	Scalable Photoelectrochemical Perovskite-BiVO ₄ Tandem Devices for Solar Fuel Synthesis. , 0, , .		0
31	Scalable Photoelectrochemical Perovskite-BiVO ₄ Tandem Devices for Solar Fuel Synthesis. , 0, , .		0
32	Reforming of Soluble Biomass and Plastic Derived Waste Using a Bias-Free Cu ₃₀ Pd ₇₀ Perovskite Pt Photoelectrochemical Device (Adv. Funct. Mater.) Tj ETQq0 0 0498 / Overlock 10 T		0