

# 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	Reforming of Soluble Biomass and Plastic Derived Waste Using a Bias-Free Cu <sub>30</sub> Pd <sub>70</sub>   Perovskite   Pt Photoelectrochemical Device. <i>Advanced Functional Materials</i> , 2022, 32, 2109313.	14.9	51
2	Reforming of Soluble Biomass and Plastic Derived Waste Using a Bias-Free Cu <sub>30</sub> Pd <sub>70</sub>   Perovskite   Pt Photoelectrochemical Device (Adv. Funct. Mater.) <i>Tj ETQq0 0 0 0 BT / Overlock 10 T</i>	14.9	51
3	Automated synthesis and characterization techniques for solar fuel production. <i>Nature Reviews Materials</i> , 2022, 7, 251-253.	48.7	11
4	Single-Source Deposition of Mixed-Metal Oxide Films Containing Zirconium and 3d Transition Metals for (Photo)electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 6223-6233.	4.0	4
5	Long-term solar water and CO <sub>2</sub> splitting with photoelectrochemical BiOI/BiVO <sub>4</sub> tandems. <i>Nature Materials</i> , 2022, 21, 864-868.	27.5	41
6	Bifunctional Perovskite/BiVO <sub>4</sub> Tandem Devices for Uninterrupted Solar and Electrocatalytic Water Splitting Cycles. <i>Advanced Functional Materials</i> , 2021, 31, 2008182.	14.9	36
7	Water-Assisted Growth: Bifunctional Perovskite/BiVO <sub>4</sub> Tandem Devices for Uninterrupted Solar and Electrocatalytic Water Splitting Cycles (Adv. Funct. Mater. 15/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170104.	14.9	2
8	A Semi-Artificial Photoelectrochemical Tandem Leaf with a CO <sub>2</sub> -to-Formate Efficiency Approaching 1%. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26303-26307.	13.8	34
9	A Semi-Artificial Photoelectrochemical Tandem Leaf with a CO <sub>2</sub> -to-Formate Efficiency Approaching 1%. <i>Angewandte Chemie</i> , 2021, 133, 26507-26511.	2.0	4
10	RÅ¼cktitelbild: A Semi-Artificial Photoelectrochemical Tandem Leaf with a CO <sub>2</sub> -to-Formate Efficiency Approaching 1% (Angew. Chem. 50/2021). <i>Angewandte Chemie</i> , 2021, 133, 26616-26616.	2.0	1
11	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
12	Bias-free solar syngas production by integrating a molecular cobalt catalyst with perovskite/BiVO <sub>4</sub> tandems. <i>Nature Materials</i> , 2020, 19, 189-194.	27.5	175
13	The effect of post-deposition annealing conditions on structural and thermoelectric properties of sputtered copper oxide films. <i>RSC Advances</i> , 2020, 10, 29394-29401.	3.6	13
14	Selective CO production from aqueous CO <sub>2</sub> using a Cu <sub>96</sub> In <sub>4</sub> catalyst and its integration into a bias-free solar perovskite/BiVO <sub>4</sub> tandem device. <i>Energy and Environmental Science</i> , 2020, 13, 3536-3543.	30.8	32
15	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
16	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 345-363.	3.2	2
17	Synthetic approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 242-281.	3.2	5
18	Triple-Cation-Based Perovskite Photocathodes with AZO Protective Layer for Hydrogen Production Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23198-23206.	8.0	46

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19	Functionalized Cellulose for Water Purification, Antimicrobial Applications, and Sensors. <i>Advanced Functional Materials</i> , 2018, 28, 1800409.	14.9	192
20	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
21	Single-Source Bismuth (Transition Metal) Polyoxovanadate Precursors for the Scalable Synthesis of Doped BiVO <sub>4</sub> Photoanodes. <i>Advanced Materials</i> , 2018, 30, e1804033.	21.0	47
22	Scalable Triple Cation Mixed Halide Perovskite-BiVO <sub>4</sub> Tandems for Bias-Free Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801403.	19.5	128
23	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie</i> , 2018, 130, 10755-10759.	2.0	16
24	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10595-10599.	13.8	93
25	Size Dependence of Electrical Conductivity and Thermoelectric Enhancements in Spin-Coated PEDOT:PSS Single and Multiple Layers. <i>Advanced Electronic Materials</i> , 2017, 3, 1600473.	5.1	42
26	In Situ Complementary Doping, Thermoelectric Improvements, and Strain-Induced Structure within Alternating PEDOT:PSS/PANI Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33308-33316.	8.0	30
27	Adjusting the thermoelectric properties of copper(II) oxide-graphite polymer pastes and the applications of such flexible composites. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10700-10707.	2.8	33
28	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
29	Decreasing the Effective Thermal Conductivity in Glass Supported Thermoelectric Layers. <i>PLoS ONE</i> , 2016, 11, e0151708.	2.5	10
30	Copper(I) oxide based thermoelectric powders and pastes with high Seebeck coefficients. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	22
31	Scalable Photoelectrochemical Perovskite-BiVO <sub>4</sub> Tandem Devices for Solar Fuel Synthesis. , 0, , .		0
32	Scalable Photoelectrochemical Perovskite-BiVO <sub>4</sub> Tandem Devices for Solar Fuel Synthesis. , 0, , .		0