

# AndrÃ© D Taylor

## List of Publications by Year in descending order

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72  
papers

4,888  
citations

71102

41  
h-index

91884

69  
g-index

75  
all docs

75  
docs citations

75  
times ranked

8041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-by-Layer Assembly of Cross-Functional Semi-transparent MXene-Carbon Nanotubes Composite Films for Next-Generation Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2018, 28, 1803360.	14.9	407
2	Polymer bulk heterojunction solar cells employing Förster resonance energy transfer. <i>Nature Photonics</i> , 2013, 7, 479-485.	31.4	389
3	Solution-processed titanium carbide MXene films examined as highly transparent conductors. <i>Nanoscale</i> , 2016, 8, 16371-16378.	5.6	227
4	Development of Omniphobic Desalination Membranes Using a Charged Electrospun Nanofiber Scaffold. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11154-11161.	8.0	218
5	Bulk Metallic Glass Nanowire Architecture for Electrochemical Applications. <i>ACS Nano</i> , 2011, 5, 2979-2983.	14.6	201
6	Perovskite solar cells with a DMSO-treated PEDOT:PSS hole transport layer exhibit higher photovoltaic performance and enhanced durability. <i>Nanoscale</i> , 2017, 9, 4236-4243.	5.6	135
7	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. <i>Matter</i> , 2020, 3, 546-557.	10.0	127
8	Raman Spectroscopy in Lithium-Oxygen Battery Systems. <i>ChemElectroChem</i> , 2015, 2, 1446-1457.	3.4	123
9	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. <i>Nature Communications</i> , 2016, 7, 12925.	12.8	122
10	Heterogeneous WS <sub>2</sub> /WO <sub>3</sub> Thorn-Bush Nanofiber Electrodes for Sodium-Ion Batteries. <i>ACS Nano</i> , 2016, 10, 3257-3266.	14.6	121
11	CO <sub>2</sub> doping of organic interlayers for perovskite solar cells. <i>Nature</i> , 2021, 594, 51-56.	27.8	120
12	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6316-6322.	7.1	119
13	Structurally Deformed MoS <sub>2</sub> for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017, 29, 1703863.	21.0	107
14	Layer-by-Layer Assembly of Two-Dimensional Materials: Meticulous Control on the Nanoscale. <i>Matter</i> , 2020, 2, 1148-1165.	10.0	106
15	Toward Efficient Thick Active PTB7 Photovoltaic Layers Using Diphenyl Ether as a Solvent Additive. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15724-15731.	8.0	92
16	Silver palladium core-shell electrocatalyst supported on MWNTs for ORR in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 285-293.	20.2	90
17	Development and electrochemical studies of membrane electrode assemblies for polymer electrolyte alkaline fuel cells using FAA membrane and ionomer. <i>Journal of Power Sources</i> , 2013, 230, 169-175.	7.8	89
18	Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High Gain. <i>Nano Letters</i> , 2017, 17, 7330-7338.	9.1	88

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19	Improved efficiency of smooth and aligned single walled carbon nanotube/silicon hybrid solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 879.	30.8	87
20	Bulk Metallic Glass Micro Fuel Cell. <i>Small</i> , 2013, 9, 2081-2085.	10.0	85
21	Scalable Fabrication of Multifunctional Freestanding Carbon Nanotube/Polymer Composite Thin Films for Energy Conversion. <i>ACS Nano</i> , 2012, 6, 1347-1356.	14.6	84
22	Mechanically strong and electrically conductive multilayer MXene nanocomposites. <i>Nanoscale</i> , 2019, 11, 20295-20300.	5.6	81
23	Fuel Cell Membrane Electrode Assemblies Fabricated by Layer-by-Layer Electrostatic Self-Assembly Techniques. <i>Advanced Functional Materials</i> , 2008, 18, 3003-3009.	14.9	77
24	Spray coating of the PCBM electron transport layer significantly improves the efficiency of p-i-n planar perovskite solar cells. <i>Nanoscale</i> , 2018, 10, 11342-11348.	5.6	76
25	Pd-Ni-Cu-P metallic glass nanowires for methanol and ethanol oxidation in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11248-11255.	7.1	75
26	Weak polyelectrolyte-based multilayers via layer-by-layer assembly: Approaches, properties, and applications. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102200.	14.7	72
27	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. <i>Advanced Materials</i> , 2016, 28, 1940-1949.	21.0	71
28	A Promising Carbon/ $\text{N}_3\text{N}_4$ Composite Negative Electrode for a Long-Life Sodium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13727-13733.	13.8	70
29	High-Performance Capacitive Deionization via Manganese Oxide-Coated, Vertically Aligned Carbon Nanotubes. <i>Environmental Science and Technology Letters</i> , 2018, 5, 692-700.	8.7	69
30	Panchromatic polymer-polymer ternary solar cells enhanced by Förster resonance energy transfer and solvent vapor annealing. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18611-18621.	10.3	55
31	Ultrathin Nanotube/Nanowire Electrodes by Spin-Spray Layer-by-Layer Assembly: A Concept for Transparent Energy Storage. <i>ACS Nano</i> , 2015, 9, 10005-10017.	14.6	55
32	Improving the Assembly Speed, Quality, and Tunability of Thin Conductive Multilayers. <i>ACS Nano</i> , 2012, 6, 3703-3711.	14.6	53
33	Tunable Hierarchical Metallic-Glass Nanostructures. <i>Advanced Functional Materials</i> , 2013, 23, 2708-2713.	14.9	52
34	A highly efficient polymer non-fullerene organic solar cell enhanced by introducing a small molecule as a crystallizing-agent. <i>Materials Today</i> , 2018, 21, 79-87.	14.2	52
35	Three-Phase Morphology Evolution in Sequentially Solution-Processed Polymer Photodetector: Toward Low Dark Current and High Photodetectivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3856-3864.	8.0	50
36	Recent Advances in Metallic Glass Nanostructures: Synthesis Strategies and Electrocatalytic Applications. <i>Advanced Materials</i> , 2019, 31, e1802120.	21.0	49

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37	Palladium nanostructures from multi-component metallic glass. <i>Electrochimica Acta</i> , 2012, 74, 145-150.	5.2	47
38	Toward Microcapsule-Embedded Self-Healing Membranes. <i>Environmental Science and Technology Letters</i> , 2016, 3, 216-221.	8.7	47
39	Binary Solvent Additives Treatment Boosts the Efficiency of PTB7:PCBM Polymer Solar Cells to Over 9.5%. <i>Solar Rrl</i> , 2018, 2, 1700144.	5.8	47
40	Efficiency Limits of Underwater Solar Cells. <i>Joule</i> , 2020, 4, 840-849.	24.0	47
41	Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10%. <i>Advanced Energy Materials</i> , 2016, 6, 1600660.	19.5	46
42	Pt and Pd catalyzed oxidation of Li <sub>2</sub> O <sub>2</sub> and DMSO during Li <sup>+</sup> O <sub>2</sub> battery charging. <i>Chemical Communications</i> , 2016, 52, 6605-6608.	4.1	45
43	A Cytop Insulating Tunneling Layer for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2017, 1, 1700244.	8.6	42
44	Device Area Scale-Up and Improvement of SWNT/Si Solar Cells Using Silver Nanowires. <i>Advanced Energy Materials</i> , 2014, 4, 1400186.	19.5	35
45	Colorful polymer solar cells employing an energy transfer dye molecule. <i>Nano Energy</i> , 2017, 38, 36-42.	16.0	34
46	Role of HF in Oxygen Removal from Carbon Nanotubes: Implications for High Performance Carbon Electronics. <i>Nano Letters</i> , 2014, 14, 6179-6184.	9.1	32
47	Electrochemical-Osmotic Process for Simultaneous Recovery of Electric Energy, Water, and Metals from Wastewater. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8430-8442.	10.0	31
48	Combinatorial screening of Pd-based quaternary electrocatalysts for oxygen reduction reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2017, 5, 67-72.	10.3	30
49	A Promising Carbon/g-C <sub>3</sub> N <sub>4</sub> Composite Negative Electrode for a Long-Life Sodium-Ion Battery. <i>Angewandte Chemie</i> , 2019, 131, 13865-13871.	2.0	29
50	Exploring a wider range of Mg-Ca-Zn metallic glass as biocompatible alloys using combinatorial sputtering. <i>Chemical Communications</i> , 2017, 53, 8288-8291.	4.1	27
51	Nanopatterned Bulk Metallic Glass Biosensors. <i>ACS Sensors</i> , 2017, 2, 1779-1787.	7.8	26
52	A highly efficient perovskite photovoltaic-aqueous Li/Na-ion battery system. <i>Energy Storage Materials</i> , 2020, 24, 557-564.	18.0	26
53	A New Design Strategy for Observing Lithium Oxide Growth-Evolution Interactions Using Geometric Catalyst Positioning. <i>Nano Letters</i> , 2016, 16, 4799-4806.	9.1	25
54	Underwater Organic Solar Cells via Selective Removal of Electron Acceptors near the Top Electrode. <i>ACS Energy Letters</i> , 2019, 4, 1034-1041.	17.4	25

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55	Polymer coating of vanadium oxide nanowires to improve cathodic capacity in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7979.	10.3	21
56	PEOz-PEDOT:PSS Composite Layer: A Route to Suppressed Hysteresis and Enhanced Open-Circuit Voltage in a Planar Perovskite Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25329-25336.	8.0	19
57	Perovskite Solar Cells with Enhanced Fill Factors Using Polymer-Capped Solvent Annealing. <i>ACS Applied Energy Materials</i> , 2020, 3, 7231-7238.	5.1	19
58	Charge Transfer from Carbon Nanotubes to Silicon in Flexible Carbon Nanotube/Silicon Solar Cells. <i>Small</i> , 2017, 13, 1702387.	10.0	18
59	Nanoimprinting Sub-100 nm Features in a Photovoltaic Nanocomposite using Durable Bulk Metallic Glass Molds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 3456-3461.	8.0	15
60	Increased mobility and on/off ratio in organic field-effect transistors using low-cost guanine-pentacene multilayers. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
61	An additive dripping technique using diphenyl ether for tuning perovskite crystallization for high-efficiency solar cells. <i>Nano Research</i> , 2018, 11, 2648-2657.	10.4	11
62	Stratified rod network model of electrical conductance in ultrathin polymer-carbon nanotube multilayers. <i>Physical Review B</i> , 2013, 87, .	3.2	7
63	Metallic Glass Nanostructures: Recent Advances in Metallic Glass Nanostructures: Synthesis Strategies and Electrocatalytic Applications ( <i>Adv. Mater.</i> 7/2019). <i>Advanced Materials</i> , 2019, 31, 1970050.	21.0	7
64	Identifying optimal photovoltaic technologies for underwater applications. <i>IScience</i> , 2022, 25, 104531.	4.1	5
65	MXene Films, Coatings, and Bulk Processing. , 2019, , 197-219.		4
66	Metallic Glass Nanostructures: Tunable Hierarchical Metallic Glass Nanostructures ( <i>Adv. Funct. Mater.</i> 14/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1901020.	14.9	2
67	A Compact Electron Transport Layer Using a Heated Tin Oxide Colloidal Solution for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 0, , 2100794.	5.8	2
68	Fuel Cells: Bulk Metallic Glass Micro Fuel Cell ( <i>Small</i> 12/2013). <i>Small</i> , 2013, 9, 2026-2026.	10.0	1
69	Solar Cells: Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10% ( <i>Adv. Energy Mater.</i> 21/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	1
70	Bioinspired Dimensional Transition: Structurally Deformed MoS <sub>2</sub> for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction ( <i>Adv. Mater.</i> 44/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
71	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces ( <i>Adv. Mater.</i> 10/2016). <i>Advanced Materials</i> , 2016, 28, 1902-1902.	21.0	0
72	Colorful Organic Solar Cells Employing Förster Resonance Energy Transfer Dye Molecule. , 2018, , .		0