

Mike Tebyetekerwa

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,982
citations

136950

32
h-index

175258

52
g-index

76
all docs

76
docs citations

76
times ranked

3700
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregation-induced emission molecules enable characterization of superhydrophobic coatings. <i>Progress in Organic Coatings</i> , 2022, 163, 106633.	3.9	10
2	All room-temperature synthesis, N ₂ photofixation and reactivation over 2D cobalt oxides. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 121001.	20.2	11
3	Interfacing transition metal dichalcogenides with chromium germanium telluride quantum dots for controllable light-matter interactions. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 432-440.	9.4	2
4	Natural and industrial wastes for sustainable and renewable polymer composites. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112054.	16.4	65
5	Influence of the anode buffer layer materials and the light radiation power on the efficiency of a planar p-i-n perovskite solar cell: theory and simulation. <i>Journal of Photonics for Energy</i> , 2022, 12, .	1.3	11
6	The Role of Hydrothermal Carbonization in Sustainable Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	61
7	Electrocapacitive desalination with nitrogen-doped hierarchically structured carbon prepared using a sustainable salt-template method. <i>Chemical Engineering Journal</i> , 2022, 446, 137211.	12.7	28
8	Synthesis of carbon-modified cobalt disphosphide as anode for sodium-ion storage. <i>Electrochimica Acta</i> , 2022, 423, 140611.	5.2	4
9	Extremely stretchable and healable ionic conductive hydrogels fabricated by surface competitive coordination for human-motion detection. <i>Chemical Engineering Journal</i> , 2021, 420, 127637.	12.7	47
10	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. <i>Science</i> , 2021, 371, 390-395.	12.6	270
11	Homogenous metallic deposition regulated by defect-rich skeletons for sodium metal batteries. <i>Energy and Environmental Science</i> , 2021, 14, 6381-6393.	30.8	70
12	Highly Enhanced Light-Matter Interaction in MXene Quantum Dots-Monolayer WS ₂ Heterostructure. <i>Small</i> , 2021, 17, e2006309.	10.0	22
13	Highly Stretchable and Reconfigurable Ionogels with Unprecedented Thermoplasticity and Ultrafast Self-Healability Enabled by Gradient-Responsive Networks. <i>Macromolecules</i> , 2021, 54, 3832-3844.	4.8	45
14	Contactless and Spatially Resolved Determination of Current-Voltage Curves in Perovskite Solar Cells via Photoluminescence. <i>Solar Rrl</i> , 2021, 5, 2100348.	5.8	7
15	Circular Economy and Sustainability of the Clothing and Textile Industry. <i>Materials Circular Economy</i> , 2021, 3, 1.	3.2	64
16	Contactless and Spatially Resolved Determination of Current-Voltage Curves in Perovskite Solar Cells via Photoluminescence. <i>Solar Rrl</i> , 2021, 5, 2170083.	5.8	1
17	Janus hybrid sustainable all-cellulose nanofiber sponge for oil-water separation. <i>International Journal of Biological Macromolecules</i> , 2021, 185, 997-1004.	7.5	33
18	Complementary bulk and surface passivations for highly efficient perovskite solar cells by gas quenching. <i>Cell Reports Physical Science</i> , 2021, 2, 100511.	5.6	21

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19	Twist-driven wide freedom of indirect interlayer exciton emission in MoS ₂ /WS ₂ heterobilayers. Cell Reports Physical Science, 2021, 2, 100509.	5.6	23
20	Exploring the mechanism of self-stratifying coatings with aggregation-induced emission. Progress in Organic Coatings, 2021, 159, 106448.	3.9	7
21	Understanding electrochemical capacitors with in-situ techniques. Renewable and Sustainable Energy Reviews, 2021, 149, 111418.	16.4	32
22	Techniques enabling inorganic materials into wearable fiber/yarn and flexible lithium-ion batteries. Energy Storage Materials, 2021, 43, 62-84.	18.0	25
23	Vanadium-Doped Monolayer MoS ₂ with Tunable Optical Properties for Field-Effect Transistors. ACS Applied Nano Materials, 2021, 4, 769-777.	5.0	39
24	Investigation of Gallium-Boron Spin-On Codoping for poly-Si/SiO _x Passivating Contacts. Solar Rrl, 2021, 5, 2100653.	5.8	3
25	Investigation of Gallium-Boron Spin-On Codoping for poly-Si/SiO _x Passivating Contacts. Solar Rrl, 2021, 5, .	5.8	1
26	High stress-driven voltages in net-like layer-supported organic-inorganic perovskites. Journal of Materials Chemistry C, 2020, 8, 2643-2658.	5.5	14
27	Hydrogenation Mechanisms of Poly-Si/SiO _x Passivating Contacts by Different Capping Layers. Solar Rrl, 2020, 4, 1900476.	5.8	13
28	Spatially and Spectrally Resolved Absorptivity: New Approach for Degradation Studies in Perovskite and Perovskite/Silicon Tandem Solar Cells. Advanced Energy Materials, 2020, 10, 1902901.	19.5	9
29	Polyindole batteries and supercapacitors. Energy Storage Materials, 2020, 33, 336-359.	18.0	66
30	Which is a better fluorescent sensor: aggregation-induced emission-based nanofibers or thin-coating films?. Materials Advances, 2020, 1, 574-578.	5.4	9
31	Intelligent Materials. Matter, 2020, 3, 590-593.	10.0	14
32	Mechanisms and Applications of Steady-State Photoluminescence Spectroscopy in Two-Dimensional Transition-Metal Dichalcogenides. ACS Nano, 2020, 14, 14579-14604.	14.6	56
33	Emission Control from Transition Metal Dichalcogenide Monolayers by Aggregation-Induced Molecular Rotors. ACS Nano, 2020, 14, 7444-7453.	14.6	23
34	Hydrogenation Mechanisms of Poly-Si/SiO _x Passivating Contacts by Different Capping Layers. Solar Rrl, 2020, 4, 2070033.	5.8	10
35	Electrospun Nanofibers-Based Face Masks. Advanced Fiber Materials, 2020, 2, 161-166.	16.1	108
36	What Is Next for Electrospinning?. Matter, 2020, 2, 279-283.	10.0	49

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37	Tandem Solar Cells: Spatially and Spectrally Resolved Absorptivity: New Approach for Degradation Studies in Perovskite and Perovskite/Silicon Tandem Solar Cells (Adv. Energy Mater. 4/2020). Advanced Energy Materials, 2020, 10, 2070016.	19.5	0
38	Advanced Chemical Applications of Modified Cotton. Textile Science and Clothing Technology, 2020, , 501-527.	0.5	1
39	Contactless, nondestructive determination of dopant profiles of localized boron-diffused regions in silicon wafers at room temperature. Scientific Reports, 2019, 9, 10423.	3.3	2
40	All-cellulose-based Quasi-solid-state Sodium-ion Hybrid Capacitors Enabled by Structural Hierarchy. Advanced Functional Materials, 2019, 29, 1903895.	14.9	75
41	Retained fluorescence of aggregation-caused quenched Rhodamine grafted in the hierarchical mesopores of silica MCM-41 at solid-state. Advanced Powder Technology, 2019, 30, 2218-2224.	4.1	13
42	Perovskite Solar Fibers: Current Status, Issues and Challenges. Advanced Fiber Materials, 2019, 1, 101-125.	16.1	42
43	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. Energy and Environmental Science, 2019, 12, 2148-2160.	30.8	104
44	Solar Cells: Quantifying Quasi-Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides (Adv. Mater. 25/2019). Advanced Materials, 2019, 31, 1970180.	21.0	2
45	Quantifying Quasi-Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides. Advanced Materials, 2019, 31, e1900522.	21.0	34
46	1-D polymer ternary composites: Understanding materials interaction, percolation behaviors and mechanism toward ultra-high stretchable and super-sensitive strain sensors. Science China Materials, 2019, 62, 995-1004.	6.3	22
47	Highly efficient photovoltaic energy storage hybrid system based on ultrathin carbon electrodes designed for a portable and flexible power source. Journal of Power Sources, 2019, 422, 196-207.	7.8	24
48	“Stiff-Soft” Binary Synergistic Aerogels with Superflexibility and High Thermal Insulation Performance. Advanced Functional Materials, 2019, 29, 1806407.	14.9	111
49	Predicting Open-Circuit Voltages in Atomically-Thin Monolayer Transition Metal Dichalcogenides-Based Solar Cells. , 2019, , .		0
50	Luminescence from poly-Si films and its application to study passivating-contact solar cells. , 2019, , .		0
51	Fluorescent aggregation-induced emission (AIE)-based thermosetting electrospun nanofibers: fabrication, properties and applications. Materials Chemistry Frontiers, 2019, 3, 2491-2498.	5.9	46
52	Aluminium and zinc co-doped CuInS ₂ QDs for enhanced trion modulation in monolayer WS ₂ toward improved electrical properties. Journal of Materials Chemistry C, 2019, 7, 15074-15081.	5.5	12
53	Hydrogen-Assisted Defect Engineering of Doped Poly-Si Films for Passivating Contact Solar Cells. ACS Applied Energy Materials, 2019, 2, 8783-8791.	5.1	12
54	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. Journal of Materials Chemistry A, 2019, 7, 26661-26692.	10.3	24

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55	Preparation of silica/polymer nanocomposites with aggregation-induced emission properties as fluorescent responsive coatings. <i>Progress in Organic Coatings</i> , 2019, 127, 8-15.	3.9	17
56	Hydrogenation of Phosphorus-Doped Polycrystalline Silicon Films for Passivating Contact Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5554-5560.	8.0	47
57	Laponite-based Nanomaterials for Biomedical Applications: A Review. <i>Current Pharmaceutical Design</i> , 2019, 25, 424-443.	1.9	62
58	Synergistic effect of CNT films impregnated with CNT modified epoxy solution towards boosted interfacial bonding and functional properties of the composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 1-10.	7.6	37
59	Improved thermal and mechanical performance of ramie fibers reinforced poly(lactic acid) biocomposites via fiber surface modifications and composites thermal annealing. <i>Polymer Composites</i> , 2018, 39, E1867.	4.6	17
60	Water-based fluorescent paint: Presenting a novel approach to study and solve the aggregation caused quench (ACQ) effect in traditional fluorescent materials. <i>Progress in Organic Coatings</i> , 2018, 120, 1-9.	3.9	36
61	Highly sensitive and stretchable piezoresistive strain sensor based on conductive poly(styrene-butadiene-styrene)/few layer graphene composite fiber. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 105, 291-299.	7.6	157
62	Surface Self-Assembly of Functional Electroactive Nanofibers on Textile Yarns as a Facile Approach toward Super Flexible Energy Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 377-386.	5.1	47
63	Robust, hydrophilic graphene/cellulose nanocrystal fiber-based electrode with high capacitive performance and conductivity. <i>Carbon</i> , 2018, 127, 218-227.	10.3	143
64	Materials interaction in aggregation-induced emission (AIE)-based fluorescent resin for smart coatings. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12849-12857.	5.5	57
65	Precipitated silica agglomerates reinforced with cellulose nanofibrils as adsorbents for heavy metals. <i>RSC Advances</i> , 2018, 8, 33129-33137.	3.6	13
66	Sub-Bandgap Luminescence from Doped Polycrystalline and Amorphous Silicon Films and Its Application to Understanding Passivating-Contact Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6619-6625.	5.1	18
67	Polyester@MXene nanofibers-based yarn electrodes. <i>Journal of Power Sources</i> , 2018, 396, 683-690.	7.8	147
68	Superior piezoresistive strain sensing behaviors of carbon nanotubes in one-dimensional polymer fiber structure. <i>Carbon</i> , 2018, 140, 1-9.	10.3	104
69	An attempt to adopt aggregation-induced emission to study organic-inorganic composite materials. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7003-7011.	5.5	23
70	A bottom-up approach to design wearable and stretchable smart fibers with organic vapor sensing behaviors and energy storage properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13633-13643.	10.3	55
71	The Current Working Conditions in Ugandan Apparel Assembly Plants. <i>Safety and Health at Work</i> , 2017, 8, 378-385.	0.6	7
72	Nanostructured polyaniline/poly(styrene-butadiene-styrene) composite fiber for use as highly sensitive and flexible ammonia sensor. <i>Synthetic Metals</i> , 2017, 233, 86-93.	3.9	37

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73	Green approach to fabricate Polyindole composite nanofibers for energy and sensor applications. <i>Materials Letters</i> , 2017, 209, 400-403.	2.6	40
74	Controlled synergistic strategy to fabricate 3D-skeletal hetero-nanosponges with high performance for flexible energy storage applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21114-21121.	10.3	44
75	Unveiling Polyindole: Freestanding As-electrospun Polyindole Nanofibers and Polyindole/Carbon Nanotubes Composites as Enhanced Electrodes for Flexible All-solid-state Supercapacitors. <i>Electrochimica Acta</i> , 2017, 247, 400-409.	5.2	76