Meidan Ye

List of Publications by Year
in descending order

71 papers	5,471 citations	109321 35 h-index	91884 69 g-index
74 all docs	74 docs citations	74 times ranked	7668 citing authors

#	Article	IF	Citations
1	Recent advances in dye-sensitized solar cells: from photoanodes, sensitizers and electrolytes to counter electrodes. Materials Today, 2015, 18, 155-162.	14.2	609
2	High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO₂ Nanotube Arrays. Journal of the American Chemical Society, 2012, 134, 15720-15723.	13.7	571
3	High Efficiency Dye-Sensitized Solar Cells Based on Hierarchically Structured Nanotubes. Nano Letters, 2011, 11, 3214-3220.	9.1	337
4	Stretchable, Biocompatible, and Multifunctional Silk Fibroin-Based Hydrogels toward Wearable Strain/Pressure Sensors and Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2020, 12, 6442-6450.	8.0	302
5	Plasmonâ€Mediated Solar Energy Conversion via Photocatalysis in Noble Metal/Semiconductor Composites. Advanced Science, 2016, 3, 1600024.	11.2	222
6	Hierarchically Structured Nanotubes for Highly Efficient Dyeâ€Sensitized Solar Cells. Advanced Materials, 2013, 25, 3039-3044.	21.0	182
7	Optimized porous rutile TiO2 nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. Energy and Environmental Science, 2013, 6, 1615.	30.8	160
8	Designing heterostructured metal sulfide core-shell nanoneedle films as battery-type electrodes for hybrid supercapacitors. Energy Storage Materials, 2020, 24, 541-549.	18.0	160
9	The charge carrier dynamics, efficiency and stability of two-dimensional material-based perovskite solar cells. Chemical Society Reviews, 2019, 48, 4854-4891.	38.1	139
10	Recent advancements in perovskite solar cells: flexibility, stability and large scale. Journal of Materials Chemistry A, 2016, 4, 6755-6771.	10.3	137
11	In situ growth of CuS and Cu_{1.8}S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 9595-9600.	10.3	132
12	Recent advances in interfacial engineering of perovskite solar cells. Journal Physics D: Applied Physics, 2017, 50, 373002.	2.8	129
13	Hierarchically structured Co9S8@NiCo2O4 nanobrushes for high-performance flexible asymmetric supercapacitors. Chemical Engineering Journal, 2019, 356, 985-993.	12.7	128
14	Quantumâ€Dot Sensitized Solar Cells Employing Hierarchical Cu₂S Microspheres Wrapped by Reduced Graphene Oxide Nanosheets as Effective Counter Electrodes. Advanced Energy Materials, 2014, 4, 1301564.	19.5	119
15	Biomass-derived, multifunctional and wave-layered carbon aerogels toward wearable pressure sensors, supercapacitors and triboelectric nanogenerators. Nano Energy, 2021, 85, 105973.	16.0	116
16	Hierarchical Rutile TiO₂ Flower Clusterâ€Based High Efficiency Dyeâ€Sensitized Solar Cells via Direct Hydrothermal Growth on Conducting Substrates. Small, 2013, 9, 312-321.	10.0	115
17	Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for Highâ€Efficiency Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000999.	21.0	104
18	Recent advances in quantum dot-sensitized solar cells: insights into photoanodes, sensitizers, electrolytes and counter electrodes. Sustainable Energy and Fuels, 2017, 1, 1217-1231.	4.9	103

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19	Densely aligned rutile TiO2 nanorod arrays with high surface area for efficient dye-sensitized solar cells. Nanoscale, 2012, 4, 5872.	5.6	102
20	Recent Progress in Flexible Microstructural Pressure Sensors toward Humanâ€“Machine Interaction and Healthcare Applications. Small Methods, 2021, 5, e2001041.	8.6	101
21	Surface-Treated TiO₂ Nanoparticles for Dye-Sensitized Solar Cells with Remarkably Enhanced Performance. Langmuir, 2011, 27, 14594-14598.	3.5	88
22	Oneâ€Dimensional Densely Aligned Perovskiteâ€Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity. Small, 2015, 11, 1436-1442.	10.0	86
23	Nickel and cobalt sulfide-based nanostructured materials for electrochemical energy storage devices. Chemical Engineering Journal, 2021, 409, 127237.	12.7	84
24	Carbon fiber/Co9S8 nanotube arrays hybrid structures for flexible quantum dot-sensitized solar cells. Nanoscale, 2014, 6, 3656.	5.6	77
25	Dye-sensitized solar cells based on a nanoparticle/nanotube bilayer structure and their equivalent circuit analysis. Nanoscale, 2012, 4, 964-969.	5.6	70
26	Hierarchically Structured Microspheres for High-Efficiency Rutile TiO₂-Based Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 2893-2901.	8.0	63
27	Simple route to interconnected, hierarchically structured, porous Zn2SnO4 nanospheres as electron transport layer for efficient perovskite solar cells. Nano Energy, 2020, 71, 104620.	16.0	59
28	Interface engineering via an insulating polymer for highly efficient and environmentally stable perovskite solar cells. Chemical Communications, 2016, 52, 11355-11358.	4.1	58
29	Garden-like perovskite superstructures with enhanced photocatalytic activity. Nanoscale, 2014, 6, 3576.	5.6	56
30	Flower-like polyaniline/graphene hybrids for high-performance supercapacitor. Composites Science and Technology, 2017, 142, 286-293.	7.8	56
31	Making Stretchable Hybrid Supercapacitors by Knitting Nonâ€Stretchable Metal Fibers. Advanced Functional Materials, 2020, 30, 2003153.	14.9	52
32	Preparation of hollow Co₉S₈ nanoneedle arrays as effective counter electrodes for quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 6311-6314.	10.3	51
33	Facile and effective synthesis of hierarchical TiO2 spheres for efficient dye-sensitized solar cells. Nanoscale, 2013, 5, 6577.	5.6	46
34	Highly flexible and scalable photo-rechargeable power unit based on symmetrical nanotube arrays. Nano Energy, 2018, 46, 168-175.	16.0	44
35	Ultralong Rutile TiO2 Nanorod Arrays with Large Surface Area for CdS/CdSe Quantum Dot-sensitized Solar Cells. Electrochimica Acta, 2014, 121, 175-182.	5.2	41
36	A Skinâ€Like Pressureâ€and Vibrationâ€Sensitive Tactile Sensor Based on Polyacrylamide/Silk Fibroin Elastomer. Advanced Functional Materials, 2022, 32, .	14.9	39

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37	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. RSC Advances, 2017, 7, 29088-29095.	3.6	35
38	Highly flexible, transparent and conducting CuS-nanosheet networks for flexible quantum-dot solar cells. Nanoscale, 2017, 9, 3826-3833.	5.6	33
39	Synthesis of hierarchical lamellar Co₃O₄â€“CoMoO₄ heterostructures for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 26884-26892.	10.3	31
40	Hierarchical and Self-Supported Vanadium Disulfide Microstructures@Graphite Paper: An Advanced Electrode for Efficient and Durable Asymmetric Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2020, 8, 7335-7342.	6.7	29
41	Efficient and Durable Sodium, Chlorideâ€doped Iron Oxideâ€Hydroxide Nanohybridâ€Promoted Capacitive Deionization of Saline Water via Synergetic Pseudocapacitive Process. Advanced Science, 2022, 9, .	11.2	28
42	Shape-dependent photogenerated cathodic protection by hierarchically nanostructured TiO2 films. Applied Surface Science, 2018, 462, 142-148.	6.1	27
43	Semiconductor hierarchically structured flower-like clusters for dye-sensitized solar cells with nearly 100% charge collection efficiency. Nanoscale, 2013, 5, 11220.	5.6	26
44	An integrated large-scale and vertically aligned Co(OH)2 nanosheet@graphite paper electrode for high performance capacitive deionization of saline water. Desalination, 2019, 470, 114117.	8.2	24
45	In-situ construction of 3D hierarchical MoS2/CoS2@TiO2 nanotube hybrid electrodes with superior capacitive performance toward water treatment. Chemical Engineering Journal, 2022, 429, 132582.	12.7	24
46	Transparent conducting oxide- and Pt-free flexible photo-rechargeable electric energy storage systems. RSC Advances, 2017, 7, 52988-52994.	3.6	23
47	Free-Standing, Flexible Carbon@MXene Films with Cross-Linked Mesoporous Structures toward Supercapacitors and Pressure Sensors. ACS Applied Materials & Interfaces, 2021, 13, 57576-57587.	8.0	23
48	Recent advances in various applications of nickel cobalt sulfide-based materials. Journal of Materials Chemistry A, 2022, 10, 8087-8106.	10.3	23
49	Hierarchical Cu₂S nanorods with different crystal phases for asymmetrical supercapacitors and visible-light photocatalysis. Dalton Transactions, 2018, 47, 15189-15196.	3.3	22
50	MOF-derived Co9S8/C hollow polyhedra grown on 3D graphene aerogel as efficient polysulfide mediator for long-life Li-S batteries. Materials Letters, 2020, 277, 128331.	2.6	19
51	Capacitive heavy metal ion removal of 3D self-supported nitrogen-doped carbon-encapsulated titanium nitride nanorods via the synergy of faradic-reaction and electro-adsorption. Chemical Engineering Journal, 2022, 443, 136542.	12.7	18
52	Multifunctional quantum dot materials for perovskite solar cells: Charge transport, efficiency and stability. Nano Today, 2021, 40, 101286.	11.9	16
53	A simple route to fiber-shaped heterojunctioned nanocomposites for knittable high-performance supercapacitors. Journal of Materials Chemistry A, 2020, 8, 11589-11597.	10.3	15
54	Flexible fiber-shaped liquid/quasi-solid-state quantum dot-sensitized solar cells based on different metal sulfide counter electrodes. Applied Physics Letters, 2018, 113, .	3.3	14

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55	Comparative study on electrochemical charge storage behavior of FeCo2S4 electrodes with different dimensional nanostructures. Applied Physics Letters, 2020, 116, .	3.3	14
56	Sputtered seed-assisted growth of CuS nanosheet arrays as effective counter electrodes for quantum dot-sensitized solar cells. Materials Letters, 2017, 203, 73-76.	2.6	13
57	Chemical Decoration of Perovskites by Nickel Oxide Doping for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 36841-36850.	8.0	11
58	NiS₂Nanosheet Films Supported on Ti Foils: Effective Counter Electrodes for Quantum Dot-Sensitized Solar Cells. Journal of the Electrochemical Society, 2018, 165, H45-H51.	2.9	10
59	3D hierarchical porous N-doped carbon quantum dots/vanadium nitride hybrid microflowers as a superior electrode material toward high-performance asymmetric capacitive deionization. Environmental Science: Nano, 2021, 8, 2059-2068.	4.3	9
60	Rational design of coralloid Co₉S₈â€“CuS hierarchical architectures for quantum dot-sensitized solar cells. Journal of Materials Chemistry C, 2018, 6, 11384-11391.	5.5	8
61	Carbon-embedded hierarchical and dual-anion C@MoSP heterostructure for efficient capacitive deionization of saline water. Electrochimica Acta, 2021, 387, 138494.	5.2	8
62	Crafting NiCo2O4@Co9S8 nanotrees on carbon cloth as flexible pressure sensors for effectively monitoring human motion. Applied Nanoscience (Switzerland), 2020, 10, 861-867.	3.1	7
63	Needleâ€Leafâ€Like Cu₂Mo₆S₈ Films for Highly Efficient Visibleâ€Light Photocatalysis. Particle and Particle Systems Characterization, 2018, 35, 1700302.	2.3	6
64	Highly flexible and high energy density fiber supercapacitors based upon spiral silk composite membranes encapsulation. Electrochimica Acta, 2022, 404, 139611.	5.2	5
65	Electrochemical Charge Storage Behavior of Various <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Ni</mml:mi><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math> Hierarchical Microstructures. Physical Review Applied, 2021, 15, .	3.2	5
66	Plasmonic Photocatalysis: Plasmonâ€Mediated Solar Energy Conversion via Photocatalysis in Noble Metal/Semiconductor Composites (Adv. Sci. 6/2016). Advanced Science, 2016, 3, .	11.2	2
67	High voltage output/energy density flexible asymmetric fiber supercapacitors based on a tree-like topology. Cell Reports Physical Science, 2021, 2, 100649.	5.6	2
68	Solar Cells: Hierarchically Structured Nanotubes for Highly Efficient Dye-Sensitized Solar Cells (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	21.0	1
69	Perovskite Solar Cells: Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for Highâ€Efficiency Perovskite Solar Cells (Adv. Mater. 28/2020). Advanced Materials, 2020, 32, 2070211.	21.0	1
70	Heterojunctions: One-Dimensional Densely Aligned Perovskite-Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity (Small 12/2015). Small, 2015, 11, 1435-1435.	10.0	0
71	Temperature effects on surface textures of CsPbIBr₂ films for perovskite solar cells. Applied Physics Letters, 2022, 120, 153902.	3.3	0