

Meidan Ye

List of Publications by Year in descending order

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71
papers

5,471
citations

109137

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91712

69
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docs citations

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times ranked

7668
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Recent advances in dye-sensitized solar cells: from photoanodes, sensitizers and electrolytes to counter electrodes. <i>Materials Today</i> , 2015, 18, 155-162. | 8.3 | 609 |
| 2 | High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO ₂ Nanotube Arrays. <i>Journal of the American Chemical Society</i> , 2012, 134, 15720-15723. | 6.6 | 571 |
| 3 | High Efficiency Dye-Sensitized Solar Cells Based on Hierarchically Structured Nanotubes. <i>Nano Letters</i> , 2011, 11, 3214-3220. | 4.5 | 337 |
| 4 | Stretchable, Biocompatible, and Multifunctional Silk Fibroin-Based Hydrogels toward Wearable Strain/Pressure Sensors and Triboelectric Nanogenerators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6442-6450. | 4.0 | 302 |
| 5 | Plasmon-Mediated Solar Energy Conversion via Photocatalysis in Noble Metal/Semiconductor Composites. <i>Advanced Science</i> , 2016, 3, 1600024. | 5.6 | 222 |
| 6 | Hierarchically Structured Nanotubes for Highly Efficient Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2013, 25, 3039-3044. | 11.1 | 182 |
| 7 | Optimized porous rutile TiO ₂ nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1615. | 15.6 | 160 |
| 8 | Designing heterostructured metal sulfide core-shell nanoneedle films as battery-type electrodes for hybrid supercapacitors. <i>Energy Storage Materials</i> , 2020, 24, 541-549. | 9.5 | 160 |
| 9 | The charge carrier dynamics, efficiency and stability of two-dimensional material-based perovskite solar cells. <i>Chemical Society Reviews</i> , 2019, 48, 4854-4891. | 18.7 | 139 |
| 10 | Recent advancements in perovskite solar cells: flexibility, stability and large scale. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6755-6771. | 5.2 | 137 |
| 11 | In situ growth of CuS and Cu _{1.8} S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9595-9600. | 5.2 | 132 |
| 12 | Recent advances in interfacial engineering of perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 373002. | 1.3 | 129 |
| 13 | Hierarchically structured Co ₉ S ₈ @NiCo ₂ O ₄ nanobrushes for high-performance flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 356, 985-993. | 6.6 | 128 |
| 14 | Quantum Dot Sensitized Solar Cells Employing Hierarchical Cu ₂ S Microspheres Wrapped by Reduced Graphene Oxide Nanosheets as Effective Counter Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301564. | 10.2 | 119 |
| 15 | Biomass-derived, multifunctional and wave-layered carbon aerogels toward wearable pressure sensors, supercapacitors and triboelectric nanogenerators. <i>Nano Energy</i> , 2021, 85, 105973. | 8.2 | 116 |
| 16 | Hierarchical Rutile TiO ₂ Flower Cluster-Based High Efficiency Dye-Sensitized Solar Cells via Direct Hydrothermal Growth on Conducting Substrates. <i>Small</i> , 2013, 9, 312-321. | 5.2 | 115 |
| 17 | Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2000999. | 11.1 | 104 |
| 18 | Recent advances in quantum dot-sensitized solar cells: insights into photoanodes, sensitizers, electrolytes and counter electrodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1217-1231. | 2.5 | 103 |

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|----|---|-----|-----------|
| 19 | Densely aligned rutile TiO ₂ nanorod arrays with high surface area for efficient dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 5872. | 2.8 | 102 |
| 20 | Recent Progress in Flexible Microstructural Pressure Sensors toward Human–Machine Interaction and Healthcare Applications. <i>Small Methods</i> , 2021, 5, e2001041. | 4.6 | 101 |
| 21 | Surface-Treated TiO ₂ Nanoparticles for Dye-Sensitized Solar Cells with Remarkably Enhanced Performance. <i>Langmuir</i> , 2011, 27, 14594-14598. | 1.6 | 88 |
| 22 | One-Dimensional Densely Aligned Perovskite-Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity. <i>Small</i> , 2015, 11, 1436-1442. | 5.2 | 86 |
| 23 | Nickel and cobalt sulfide-based nanostructured materials for electrochemical energy storage devices. <i>Chemical Engineering Journal</i> , 2021, 409, 127237. | 6.6 | 84 |
| 24 | Carbon fiber/Co ₉ S ₈ nanotube arrays hybrid structures for flexible quantum dot-sensitized solar cells. <i>Nanoscale</i> , 2014, 6, 3656. | 2.8 | 77 |
| 25 | Dye-sensitized solar cells based on a nanoparticle/nanotube bilayer structure and their equivalent circuit analysis. <i>Nanoscale</i> , 2012, 4, 964-969. | 2.8 | 70 |
| 26 | Hierarchically Structured Microspheres for High-Efficiency Rutile TiO ₂ -Based Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2893-2901. | 4.0 | 63 |
| 27 | Simple route to interconnected, hierarchically structured, porous Zn ₂ SnO ₄ nanospheres as electron transport layer for efficient perovskite solar cells. <i>Nano Energy</i> , 2020, 71, 104620. | 8.2 | 59 |
| 28 | Interface engineering via an insulating polymer for highly efficient and environmentally stable perovskite solar cells. <i>Chemical Communications</i> , 2016, 52, 11355-11358. | 2.2 | 58 |
| 29 | Garden-like perovskite superstructures with enhanced photocatalytic activity. <i>Nanoscale</i> , 2014, 6, 3576. | 2.8 | 56 |
| 30 | Flower-like polyaniline/graphene hybrids for high-performance supercapacitor. <i>Composites Science and Technology</i> , 2017, 142, 286-293. | 3.8 | 56 |
| 31 | Making Stretchable Hybrid Supercapacitors by Knitting Nonstretchable Metal Fibers. <i>Advanced Functional Materials</i> , 2020, 30, 2003153. | 7.8 | 52 |
| 32 | Preparation of hollow Co ₉ S ₈ nanoneedle arrays as effective counter electrodes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6311-6314. | 5.2 | 51 |
| 33 | Facile and effective synthesis of hierarchical TiO ₂ spheres for efficient dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 6577. | 2.8 | 46 |
| 34 | Highly flexible and scalable photo-rechargeable power unit based on symmetrical nanotube arrays. <i>Nano Energy</i> , 2018, 46, 168-175. | 8.2 | 44 |
| 35 | Ultralong Rutile TiO ₂ Nanorod Arrays with Large Surface Area for CdS/CdSe Quantum Dot-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 121, 175-182. | 2.6 | 41 |
| 36 | A Skin-Like Pressure- and Vibration-Sensitive Tactile Sensor Based on Polyacrylamide/Silk Fibroin Elastomer. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 39 |

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|----|---|-----|-----------|
| 37 | Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. <i>RSC Advances</i> , 2017, 7, 29088-29095. | 1.7 | 35 |
| 38 | Highly flexible, transparent and conducting CuS-nanosheet networks for flexible quantum-dot solar cells. <i>Nanoscale</i> , 2017, 9, 3826-3833. | 2.8 | 33 |
| 39 | Synthesis of hierarchical lamellar Co ₃ O ₄ â€“CoMoO ₄ heterostructures for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26884-26892. | 5.2 | 31 |
| 40 | Hierarchical and Self-Supported Vanadium Disulfide Microstructures@Graphite Paper: An Advanced Electrode for Efficient and Durable Asymmetric Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7335-7342. | 3.2 | 29 |
| 41 | Efficient and Durable Sodium, Chlorideâ€“doped Iron Oxideâ€“Hydroxide Nanohybridâ€“Promoted Capacitive Deionization of Saline Water via Synergetic Pseudocapacitive Process. <i>Advanced Science</i> , 2022, 9, . | 5.6 | 28 |
| 42 | Shape-dependent photogenerated cathodic protection by hierarchically nanostructured TiO ₂ films. <i>Applied Surface Science</i> , 2018, 462, 142-148. | 3.1 | 27 |
| 43 | Semiconductor hierarchically structured flower-like clusters for dye-sensitized solar cells with nearly 100% charge collection efficiency. <i>Nanoscale</i> , 2013, 5, 11220. | 2.8 | 26 |
| 44 | An integrated large-scale and vertically aligned Co(OH) ₂ nanosheet@graphite paper electrode for high performance capacitive deionization of saline water. <i>Desalination</i> , 2019, 470, 114117. | 4.0 | 24 |
| 45 | In-situ construction of 3D hierarchical MoS ₂ /CoS ₂ @TiO ₂ nanotube hybrid electrodes with superior capacitive performance toward water treatment. <i>Chemical Engineering Journal</i> , 2022, 429, 132582. | 6.6 | 24 |
| 46 | Transparent conducting oxide- and Pt-free flexible photo-rechargeable electric energy storage systems. <i>RSC Advances</i> , 2017, 7, 52988-52994. | 1.7 | 23 |
| 47 | Free-Standing, Flexible Carbon@MXene Films with Cross-Linked Mesoporous Structures toward Supercapacitors and Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57576-57587. | 4.0 | 23 |
| 48 | Recent advances in various applications of nickel cobalt sulfide-based materials. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8087-8106. | 5.2 | 23 |
| 49 | Hierarchical Cu ₂ S nanorods with different crystal phases for asymmetrical supercapacitors and visible-light photocatalysis. <i>Dalton Transactions</i> , 2018, 47, 15189-15196. | 1.6 | 22 |
| 50 | MOF-derived Co ₉ S ₈ /C hollow polyhedra grown on 3D graphene aerogel as efficient polysulfide mediator for long-life Li-S batteries. <i>Materials Letters</i> , 2020, 277, 128331. | 1.3 | 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. <i>Chemical Engineering Journal</i> , 2022, 443, 136542. | 6.6 | 18 |
| 52 | Multifunctional quantum dot materials for perovskite solar cells: Charge transport, efficiency and stability. <i>Nano Today</i> , 2021, 40, 101286. | 6.2 | 16 |
| 53 | A simple route to fiber-shaped heterojunctioned nanocomposites for knittable high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11589-11597. | 5.2 | 15 |
| 54 | Flexible fiber-shaped liquid/quasi-solid-state quantum dot-sensitized solar cells based on different metal sulfide counter electrodes. <i>Applied Physics Letters</i> , 2018, 113, . | 1.5 | 14 |

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|----|---|------|-----------|
| 55 | Comparative study on electrochemical charge storage behavior of FeCo ₂ S ₄ electrodes with different dimensional nanostructures. <i>Applied Physics Letters</i> , 2020, 116, . | 1.5 | 14 |
| 56 | Sputtered seed-assisted growth of CuS nanosheet arrays as effective counter electrodes for quantum dot-sensitized solar cells. <i>Materials Letters</i> , 2017, 203, 73-76. | 1.3 | 13 |
| 57 | Chemical Decoration of Perovskites by Nickel Oxide Doping for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36841-36850. | 4.0 | 11 |
| 58 | Ni ₂ S ₃ Nanosheet Films Supported on Ti Foils: Effective Counter Electrodes for Quantum Dot-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, H45-H51. | 1.3 | 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. <i>Environmental Science: Nano</i> , 2021, 8, 2059-2068. | 2.2 | 9 |
| 60 | Rational design of coraloid Co ₉ S ₈ hierarchical architectures for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11384-11391. | 2.7 | 8 |
| 61 | Carbon-embedded hierarchical and dual-anion C@MoSP heterostructure for efficient capacitive deionization of saline water. <i>Electrochimica Acta</i> , 2021, 387, 138494. | 2.6 | 8 |
| 62 | Crafting NiCo ₂ O ₄ @Co ₉ S ₈ nanotrees on carbon cloth as flexible pressure sensors for effectively monitoring human motion. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 861-867. | 1.6 | 7 |
| 63 | Needle-like Cu ₂ Mo ₆ S ₈ Films for Highly Efficient Visible-Light Photocatalysis. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700302. | 1.2 | 6 |
| 64 | Highly flexible and high energy density fiber supercapacitors based upon spiral silk composite membranes encapsulation. <i>Electrochimica Acta</i> , 2022, 404, 139611. | 2.6 | 5 |
| 65 | Electrochemical Charge Storage Behavior of Various Hierarchical Microstructures. <i>Physical Review Applied</i> , 2021, 15, . | | |
| 66 | Plasmonic Photocatalysis: Plasmon-Mediated Solar Energy Conversion via Photocatalysis in Noble Metal/Semiconductor Composites (<i>Adv. Sci.</i> 6/2016). <i>Advanced Science</i> , 2016, 3, . | 5.6 | 2 |
| 67 | High voltage output/energy density flexible asymmetric fiber supercapacitors based on a tree-like topology. <i>Cell Reports Physical Science</i> , 2021, 2, 100649. | 2.8 | 2 |
| 68 | Solar Cells: Hierarchically Structured Nanotubes for Highly Efficient Dye-Sensitized Solar Cells (<i>Adv. Mater.</i> 10/2016). <i>Advanced Materials</i> , 2016, 28, 2070211. | 11.1 | 1 |
| 69 | Perovskite Solar Cells: Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells (<i>Adv. Mater.</i> 28/2020). <i>Advanced Materials</i> , 2020, 32, 2070211. | 11.1 | 1 |
| 70 | Heterojunctions: One-Dimensional Densely Aligned Perovskite-Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity (<i>Small</i> 12/2015). <i>Small</i> , 2015, 11, 1435-1435. | 5.2 | 0 |
| 71 | Temperature effects on surface textures of CsPbBr ₂ films for perovskite solar cells. <i>Applied Physics Letters</i> , 2022, 120, 153902. | 1.5 | 0 |