

Xi Fan

List of Publications by Year in descending order

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46
papers

2,201
citations

361045

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223531

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docs citations

47
times ranked

2888
citing authors

#	ARTICLE	IF	CITATIONS
1	PEDOT:PSS for Flexible and Stretchable Electronics: Modifications, Strategies, and Applications. <i>Advanced Science</i> , 2019, 6, 1900813.	5.6	563
2	All-Solution-Processed Metal-Oxide-Free Flexible Organic Solar Cells with Over 10% Efficiency. <i>Advanced Materials</i> , 2018, 30, e1800075.	11.1	165
3	Transfer-Printed PEDOT:PSS Electrodes Using Mild Acids for High Conductivity and Improved Stability with Application to Flexible Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14029-14036.	4.0	145
4	Isomerism in Titanium-Oxo Clusters: Molecular Anatase Model with Atomic Structure and Improved Photocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1320-1323.	7.2	121
5	Assembling Polyoxo-Titanium Clusters and CdS Nanoparticles to a Porous Matrix for Efficient and Tunable H ₂ -Evolution Activities with Visible Light. <i>Advanced Materials</i> , 2017, 29, 1603369.	11.1	113
6	Bendable ITO-free Organic Solar Cells with Highly Conductive and Flexible PEDOT:PSS Electrodes on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16287-16295.	4.0	112
7	Metallic MoS ₂ Nanoflowers Decorated Graphene Nanosheet Catalytically Boosts the Volumetric Capacity and Cycle Life of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003718.	10.2	105
8	Efficient Polymer Solar Cells Based on Poly(3-hexylthiophene):Indene ₇₀ Bisadduct with a MoO ₃ Buffer Layer. <i>Advanced Functional Materials</i> , 2012, 22, 585-590.	7.8	88
9	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. <i>Nano-Micro Letters</i> , 2021, 13, 44.	14.4	71
10	Highly Conductive Stretchable All-Plastic Electrodes Using a Novel Dipping-Embedded Transfer Method for High-Performance Wearable Sensors and Semitransparent Organic Solar Cells. <i>Advanced Electronic Materials</i> , 2017, 3, 1600471.	2.6	62
11	Highly sensitive, durable and stretchable plastic strain sensors using sandwich structures of PEDOT:PSS and an elastomer. <i>Materials Chemistry Frontiers</i> , 2018, 2, 355-361.	3.2	58
12	Doping and Design of Flexible Transparent Electrodes for High-Performance Flexible Organic Solar Cells: Recent Advances and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2009399.	7.8	56
13	Bulk heterojunction solar cells with NiO hole transporting layer based on AZO anode. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2328-2331.	3.0	46
14	Highly efficient non-fullerene polymer solar cells enabled by novel non-conjugated small-molecule cathode interlayers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6327-6334.	5.2	42
15	A Transfer-Printed, Stretchable, and Reliable Strain Sensor Using PEDOT:PSS/Ag NW Hybrid Films Embedded into Elastomers. <i>Advanced Materials Technologies</i> , 2018, 3, 1800030.	3.0	42
16	Metal oxide-free flexible organic solar cells with 0.1 M perchloric acid sprayed polymeric anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21007-21015.	5.2	40
17	Threefold Collaborative Stabilization of Ag ₁₄ -Nanorods by Hydrophobic Ti ₁₆ -Oxo Clusters and Alkynes: Designable Assembly and Solid-State Optical-Limiting Application. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12949-12954.	7.2	38
18	All annealing-free solution-processed highly flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5425-5433.	5.2	30

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19	One-Pot and Postsynthetic Phenol-Thermal Synthesis toward Highly Stable Titanium-Oxo Clusters. <i>Inorganic Chemistry</i> , 2019, 58, 13353-13359.	1.9	24
20	Isomerism in Titanium-Oxo Clusters: Molecular Anatase Model with Atomic Structure and Improved Photocatalytic Activity. <i>Angewandte Chemie</i> , 2019, 131, 1334-1337.	1.6	21
21	Ligand dependent assembly of trinuclear titanium-oxo units into coordination tetrahedra and capsules. <i>Dalton Transactions</i> , 2018, 47, 663-665.	1.6	20
22	Highly efficient polymer solar cells employing natural chlorophyllin as a cathode interfacial layer. <i>Journal of Materials Chemistry A</i> , 2018, 6, 464-468.	5.2	19
23	Vacuum-Free, All-Air Solution, and All-Air Processed Organic Photovoltaics with over 11% Efficiency and Promoted Stability Using Layer-by-Layer Codoped Polymeric Electrodes. <i>Solar Rrl</i> , 2020, 4, 1900543.	3.1	19
24	Controllable synthesis of flake-like Al-doped ZnO nanostructures and its application in inverted organic solar cells. <i>Nanoscale Research Letters</i> , 2011, 6, 546.	3.1	18
25	Charge Balance in Red QLEDs for High Efficiency and Stability via Ionic Liquid Doping. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
26	Dicarboxylate Ligands Oriented Assembly of $\{Ti_3(\mu_4-O)\}$ Units: From Dimer to Coordination Triangles and Rectangles. <i>Inorganic Chemistry</i> , 2018, 57, 5642-5647.	1.9	16
27	Pyrazole-thermal synthesis: a new approach towards N-rich titanium-oxo clusters with photochromic behaviors. <i>Dalton Transactions</i> , 2019, 48, 8049-8052.	1.6	13
28	A Methodological Study on Tuning the Thermally Activated Delayed Fluorescent Performance by Molecular Constitution in Acridine-Benzophenone Derivatives. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1187-1191.	1.7	12
29	High-efficiency robust organic solar cells using transfer-printed PEDOT:PSS electrodes through interface bonding engineering. <i>Materials Chemistry Frontiers</i> , 2019, 3, 901-908.	3.2	12
30	Metallic and Low-Work-Function PEDOT:PSS Cathodes for Flexible Organic Solar Cells Exhibiting Over 15% Efficiency and High Stability. <i>ACS Applied Energy Materials</i> , 2022, 5, 7692-7700.	2.5	11
31	Protection of Ag Clusters by Metal-Oxo Modules. <i>Chemistry - A European Journal</i> , 2021, 27, 15563-15570.	1.7	10
32	Enhanced efficiency of inverted polymer solar cells by using solution-processed TiOx/CsOx cathode buffer layer. <i>Nanoscale Research Letters</i> , 2015, 10, 29.	3.1	9
33	Highly Efficient Non-Fullerene Organic Solar Cells Using 4,8-Bis((2-ethylhexyl)oxy)benzo[1,2-b:4,5-b']dithiophene-Based Polymers as Additives. <i>Macromolecules</i> , 2018, 51, 4032-4039.	2.2	9
34	Synthesis and electronic energy level regulation of imide-fused poly(thienylene vinylene) derivatives. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4975-4982.	2.5	8
35	Binary Additives Regulate the PC71BM Aggregate Morphology for Highly Efficient Polymer Solar Cells. <i>ACS Photonics</i> , 2014, 1, 1278-1284.	3.2	8
36	Zeolitic Imidazolate Framework-Derived Co-Fe@NC for Rechargeable Hybrid Sodium-Air Battery with a Low Voltage Gap and Long Cycle Life. <i>ACS Applied Energy Materials</i> , 2022, 5, 1662-1671.	2.5	8

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37	Assembly and packing models of [Ti ₆ Co ₁₂] ring based on the titanium-capped cobalt clathrochelates. Chinese Chemical Letters, 2021, 32, 923-925.	4.8	7
38	Threefold Collaborative Stabilization of Ag ₁₄ Nanorods by Hydrophobic Ti ₁₆ Oxo Clusters and Alkynes: Designable Assembly and Solid-State Optical Limiting Application. Angewandte Chemie, 2021, 133, 13059-13064.	1.6	7
39	High-Efficiency Stable Flexible Organic Solar Cells with PEDOT:PSS Electrodes via Superacid Fumigation Treatment. Energy Technology, 2021, 9, 2100595.	1.8	7
40	Structural Isomerization in Cu(I) Clusters: Tracing the Cu Thermal Migration Paths and Unveiling the Structure-Dependent Photoluminescence. CCS Chemistry, 2023, 5, 350-360.	4.6	7
41	Boosted efficiency of conductive metal oxide-free perovskite solar cells using poly(3-(4-methylaminocarboxylbutyl)thiophene) buffer layers. Journal Physics D: Applied Physics, 2020, 53, 284001.	1.3	6
42	Phenol-triggered supramolecular transformation of titanium oxo cluster based coordination capsules. Chinese Chemical Letters, 2021, 32, 2415-2418.	4.8	6
43	Lithium-Sulfur Batteries: Metallic MoS ₂ Nanoflowers Decorated Graphene Nanosheet Catalytically Boosts the Volumetric Capacity and Cycle Life of Lithium-Sulfur Batteries (Adv. Energy) Tj ETQq1 1 @7.843144gBT /Over		
44	High-Efficiency Flexible Organic Photovoltaics and Thermoelectricities Based on Thionyl Chloride Treated PEDOT:PSS Electrodes. Frontiers in Chemistry, 2021, 9, 807538.	1.8	3
45	Broadband emission of corner-sharing halometalate templated by benzyltrimethylammonium. Inorganic Chemistry Communication, 2021, 129, 108622.	1.8	2
46	Frontispiece: Protection of Ag Clusters by Metal Oxo Modules. Chemistry - A European Journal, 2021, 27, .	1.7	0