

Aswani Yella

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

11,460
citations

27
h-index

55
g-index

55
ext. papers

12,036
ext. citations

9.2
avg, IF

5.92
L-index

#	Paper	IF	Citations
53	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <i>Science</i> , 2011 , 334, 629-34	33.3	5284
52	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014 , 6, 242-7	17.6	3560
51	Molecular engineering of push-pull porphyrin dyes for highly efficient dye-sensitized solar cells: the role of benzene spacers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2973-7	16.4	369
50	Nanocrystalline rutile electron extraction layer enables low-temperature solution processed perovskite photovoltaics with 13.7% efficiency. <i>Nano Letters</i> , 2014 , 14, 2591-6	11.5	352
49	Design and development of functionalized cyclometalated ruthenium chromophores for light-harvesting applications. <i>Inorganic Chemistry</i> , 2011 , 50, 5494-508	5.1	174
48	Sub-nanometer conformal TiO ₂ blocking layer for high efficiency solid-state perovskite absorber solar cells. <i>Advanced Materials</i> , 2014 , 26, 4309-12	24	136
47	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2733-2739	9.6	136
46	The molecular engineering of organic sensitizers for solar-cell applications. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 376-80	16.4	118
45	Molecular Engineering of PushPull Porphyrin Dyes for Highly Efficient Dye-Sensitized Solar Cells: The Role of Benzene Spacers. <i>Angewandte Chemie</i> , 2014 , 126, 3017-3021	3.6	95
44	Low-temperature crystalline titanium dioxide by atomic layer deposition for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3487-93	9.5	70
43	Bismuth-catalyzed growth of SnS ₂ nanotubes and their stability. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6426-30	16.4	68
42	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. <i>Inorganic Chemistry</i> , 2016 , 55, 6653-9	5.1	65
41	Towards compatibility between ruthenium sensitizers and cobalt electrolytes in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8731-5	16.4	57
40	Unravel the Impact of Anchoring Groups on the Photovoltaic Performances of Diketopyrrolopyrrole Sensitizers for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2389-2396	8.3	56
39	Enzyme-Mediated Deposition of a TiO ₂ Coating onto Biofunctionalized WS ₂ Chalcogenide Nanotubes. <i>Advanced Functional Materials</i> , 2009 , 19, 285-291	15.6	48
38	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2642-2648	9.6	47
37	New sensitizers for dye-sensitized solar cells featuring a carbon-bridged phenylenevinylene. <i>Chemical Communications</i> , 2013 , 49, 582-4	5.8	46

36	In Situ Heating TEM Study of Onion-like WS ₂ and MoS ₂ Nanostructures Obtained via MOCVD. <i>Chemistry of Materials</i> , 2008 , 20, 65-71	9.6	46
35	Thieno[3,4-b]pyrazine as an Electron Deficient Bridge in D-A- π DSCs. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5376-84	9.5	45
34	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2833-2843	7.1	42
33	A low recombination rate indolizine sensitizer for dye-sensitized solar cells. <i>Chemical Communications</i> , 2016 , 52, 8424-7	5.8	40
32	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. <i>Nano Letters</i> , 2014 , 14, 1190-1195	5.5	40
31	Molecular Design Principles for Near-Infrared Absorbing and Emitting Indolizine Dyes. <i>Chemistry - A European Journal</i> , 2016 , 22, 15536-15542	4.8	36
30	Near-IR photoresponse of ruthenium dipyrinate terpyridine sensitizers in the dye-sensitized solar cells. <i>Inorganic Chemistry</i> , 2014 , 53, 5417-9	5.1	35
29	Synthesis of Fullerene- and Nanotube-Like SnS ₂ Nanoparticles and Sn/S/Carbon Nanocomposites. <i>Chemistry of Materials</i> , 2009 , 21, 2474-2481	9.6	35
28	Sterically demanded unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2013 , 98, 518-529	4.6	34
27	Modulating dye E(S ⁺ /S [*]) with efficient heterocyclic nitrogen containing acceptors for DSCs. <i>Chemical Communications</i> , 2012 , 48, 2295-7	5.8	31
26	Thiocyanate-Free Ru(II) Sensitizers with a 4,4'-Dicarboxyvinyl-2,2'-bipyridine Anchor for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 2285-2294	15.6	26
25	Reversible self-assembly of metal chalcogenide/metal oxide nanostructures based on Pearson hardness. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7578-82	16.4	26
24	Large Scale MOCVD Synthesis of Hollow ReS ₂ Nanoparticles with Nested Fullerene-Like Structure. <i>Chemistry of Materials</i> , 2008 , 20, 3587-3593	9.6	25
23	High-Surface-Area Porous Platinum Electrodes for Enhanced Charge Transfer. <i>Advanced Energy Materials</i> , 2014 , 4, 1400510	21.8	22
22	Synthesis and functionalization of chalcogenide nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2338-2363	1.3	22
21	The Molecular Engineering of Organic Sensitizers for Solar-Cell Applications. <i>Angewandte Chemie</i> , 2013 , 125, 394-398	3.6	21
20	Acetylene-bridged dyes with high open circuit potential for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 35251	3.7	20
19	Peripherally and axially carboxylic acid substituted subphthalocyanines for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 2016-21	4.8	19

18	From Single Molecules to Nanoscopically Structured Materials: Self-Assembly of Metal Chalcogenide/Metal Oxide Nanostructures Based on the Degree of Pearson Hardness. <i>Chemistry of Materials</i> , 2011 , 23, 3534-3539	9.6	19
17	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2016 , 55, 7388-95	5.1	18
16	TiO ₂ colloid-based compact layers for hybrid lead halide perovskite solar cells. <i>Applied Materials Today</i> , 2017 , 7, 112-119	6.6	17
15	Diffusion-Driven Formation of MoS ₂ Nanotube Bundles Containing MoS ₂ Nanopods. <i>Chemistry of Materials</i> , 2011 , 23, 4716-4720	9.6	15
14	Synthesis of Hierarchically Grown ZnO@NT-WS ₂ Nanocomposites. <i>Chemistry of Materials</i> , 2009 , 21, 5382-5387	5.3	14
13	Mismatch strain versus dangling bonds: formation of "coin-roll nanowires" by stacking nanosheets. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3301-5	16.4	14
12	Soluble IF-ReS ₂ nanoparticles by surface functionalization with terpyridine ligands. <i>Langmuir</i> , 2011 , 27, 385-91	4	13
11	Bismut-katalysiertes Wachstum von SnS ₂ -Nanoröhren und deren Stabilität. <i>Angewandte Chemie</i> , 2009 , 121, 6546-6551	3.6	13
10	Reversible Selbstorganisation von Metallchalkogenid-Metalloxid- Nanostrukturen basierend auf dem Pearson-Konzept. <i>Angewandte Chemie</i> , 2010 , 122, 7741-7745	3.6	13
9	Snapshots of the Formation of inorganic MoS ₂ onion-type fullerenes: a "shrinking giant bubble" pathway. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2575-80	16.4	13
8	IF-ReS ₂ with Covalently Linked Porphyrin Antennae. <i>Israel Journal of Chemistry</i> , 2010 , 50, 500-505	3.4	12
7	Unraveling the Dual Character of Sulfur Atoms on Sensitizers in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26827-26833	9.5	12
6	Electron Kinetics in Dye Sensitized Solar Cells Employing Anatase with (101) and (001) Facets. <i>Electrochimica Acta</i> , 2015 , 160, 296-305	6.7	11
5	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 8893-8897	3.6	8
4	Mechanische Spannung und Valenzabsättigung in Konkurrenz: Nano-Mikrozellen aus Stapeln nanoskaliger Schichten. <i>Angewandte Chemie</i> , 2010 , 122, 3373-3377	3.6	7
3	Organic Dyes Containing Coplanar Dihexyl-Substituted Dithienosilole Groups for Efficient Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-14	2.1	6
2	Graphene-type sheets of Nb(1-x)W(x)S ₂ : synthesis and in situ functionalization. <i>Dalton Transactions</i> , 2013 , 42, 5292-7	4.3	5
1	Snapshots of the Formation of Inorganic MoS ₂ Onion-Type Fullerenes: A Shrinking Giant Bubble Pathway. <i>Angewandte Chemie</i> , 2010 , 122, 2629-2634	3.6	4

