Sai Kishore Ravi

List of Publications by Year
in descending order

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28 papers	1,627 citations	331670 21 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	2024 citing authors

#	Article	IF	Citations
1	Ultrathin Two-Dimensional Membranes Assembled by Ionic Covalent Organic Nanosheets with Reduced Apertures for Gas Separation. Journal of the American Chemical Society, 2020, 142, 4472-4480.	13.7	304
2	Solar Energy Triggered Clean Water Harvesting from Humid Air Existing above Sea Surface Enabled by a Hydrogel with Ultrahigh Hygroscopicity. Advanced Materials, 2019, 31, e1806730.	21.0	173
3	Food-derived carbonaceous materials for solar desalination and thermo-electric power generation. Nano Energy, 2019, 65, 104006.	16.0	149
4	A super hygroscopic hydrogel for harnessing ambient humidity for energy conservation and harvesting. Energy and Environmental Science, 2018, 11, 2179-2187.	30.8	134
5	Progress and perspectives in exploiting photosynthetic biomolecules for solar energy harnessing. Energy and Environmental Science, 2015, 8, 2551-2573.	30.8	100
6	Inkjet-Printable Hydrochromic Paper for Encrypting Information and Anticounterfeiting. ACS Applied Materials & Interfaces, 2017, 9, 33071-33079.	8.0	92
7	Photosynthetic Bioelectronic Sensors for Touch Perception, UVâ€Detection, and Nanopower Generation: Toward Selfâ€Powered Eâ€Skins. Advanced Materials, 2018, 30, e1802290.	21.0	62
8	A Hybrid Artificial Photocatalysis System Splits Atmospheric Water for Simultaneous Dehumidification and Power Generation. Advanced Materials, 2019, 31, e1902963.	21.0	55
9	Systematic Study of the Effects of System Geometry and Ambient Conditions on Solar Steam Generation for Evaporation Optimization. Advanced Sustainable Systems, 2019, 3, 1900044.	5.3	53
10	A Barbeque-Analog Route to Carbonize Moldy Bread for Efficient Steam Generation. IScience, 2018, 3, 31-39.	4.1	50
11	Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting. Advanced Energy Materials, 2017, 7, 1601821.	19.5	49
12	Emerging Role of the Bandâ€Structure Approach in Biohybrid Photovoltaics: A Path Beyond Bioelectrochemistry. Advanced Functional Materials, 2018, 28, 1705305.	14.9	48
13	A Mechanoresponsive Phaseâ€Changing Electrolyte Enables Fabrication of Highâ€Output Solidâ€State Photobioelectrochemical Devices from Pigmentâ€Protein Multilayers. Advanced Materials, 2018, 30, 1704073.	21.0	43
14	Biohybrid Photoproteinâ€Semiconductor Cells with Deepâ€Lying Redox Shuttles Achieve a 0.7 V Photovoltage. Advanced Functional Materials, 2018, 28, 1703689.	14.9	42
15	Portable Trilayer Photothermal Structure for Hybrid Energy Harvesting and Synergic Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 38674-38682.	8.0	42
16	Photosynthetic apparatus of Rhodobacter sphaeroides exhibits prolonged charge storage. Nature Communications, 2019, 10, 902.	12.8	40
17	Bio-photocapacitive tactile sensors as a touch-to-audio braille reader and solar capacitor. Materials Horizons, 2020, 7, 866-876.	12.2	37
18	Optical manipulation of work function contrasts on metal thin films. Science Advances, 2018, 4, eaao6050.	10.3	34

#	Article	IF	Citations
19	Transparent Nanofibrous Mesh Selfâ€Assembled from Molecular LEGOs for High Efficiency Air Filtration with New Functionalities. Small, 2017, 13, 1601924.	10.0	31
20	Energy harvesting from shadow-effect. Energy and Environmental Science, 2020, 13, 2404-2413.	30.8	29
21	Optical Shading Induces an Inâ€Plane Potential Gradient in a Semiartificial Photosynthetic System Bringing Photoelectric Synergy. Advanced Energy Materials, 2019, 9, 1901449.	19.5	22
22	Covalent organic nanosheets with large lateral size and high aspect ratio synthesized by Langmuir-Blodgett method. Chinese Chemical Letters, 2018, 29, 869-872.	9.0	14
23	Hydroâ€Assisted Selfâ€Regenerating Brominated Nâ€Alkylated Thiophene Diketopyrrolopyrrole Dye Nanofibersâ€"A Sustainable Synthesis Route for Renewable Air Filter Materials. Small, 2020, 16, e1906319.	10.0	12
24	1200% enhancement of solar energy conversion by engineering three dimensional arrays of flexible biophotoelectrochemical cells in a fixed footprint encompassed by Johnson solid shaped optical well. Nano Energy, 2021, 79, 105424.	16.0	10
25	Tandem Solar Cells: Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting (Adv. Energy Mater. 7/2017). Advanced Energy Materials, 2017, 7, .	19.5	1
26	Integrating the Light Reactions of a Photoprotein and a Semiconductor for Enhanced Photovoltage. Green Energy and Technology, 2020, , 65-77.	0.6	1
27	Reply to the â€˜Comment on â€œEnergy harvesting from shadow-effectâ€â€™ by A. K. Das, V. K. Sahu, R. S. Ajimshaa and P. Misra, Energy Environ. Sci., 2021, 10.1039/D0EE03214J. Energy and Environmental Science, 2021, 14, 4130-4131.	30.8	0
28	Prolonged Charge Trapping in Photoproteins and Its Implications for Bio-Photocapacitors. Green Energy and Technology, 2020, , 111-125.	0.6	0