

Sai Kishore Ravi

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Reply to the "Comment on "Energy harvesting from shadow-effect"™ by A. K. Das, V. K. Sahu, R. S. Ajimshaa and P. Misra, <i>Energy Environ. Sci.</i>, 2021, 10.1039/D0EE03214J. Energy and Environmental Science, 2021, 14, 4130-4131.	30.8	0
3	Bio-photocapacitive tactile sensors as a touch-to-audio braille reader and solar capacitor. Materials Horizons, 2020, 7, 866-876.	12.2	37
4	Hydro-Assisted Self-Regenerating Brominated <i>N</i>-Alkylated Thiophene Diketopyrrolopyrrole Dye Nanofibers" A Sustainable Synthesis Route for Renewable Air Filter Materials. Small, 2020, 16, e1906319.	10.0	12
5	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
6	Energy harvesting from shadow-effect. Energy and Environmental Science, 2020, 13, 2404-2413.	30.8	29
7	Integrating the Light Reactions of a Photoprotein and a Semiconductor for Enhanced Photovoltage. Green Energy and Technology, 2020, , 65-77.	0.6	1
8	Prolonged Charge Trapping in Photoproteins and Its Implications for Bio-Photocapacitors. Green Energy and Technology, 2020, , 111-125.	0.6	0
9	Food-derived carbonaceous materials for solar desalination and thermo-electric power generation. Nano Energy, 2019, 65, 104006.	16.0	149
10	Optical Shading Induces an In-Plane Potential Gradient in a Semiartificial Photosynthetic System Bringing Photoelectric Synergy. Advanced Energy Materials, 2019, 9, 1901449.	19.5	22
11	A Hybrid Artificial Photocatalysis System Splits Atmospheric Water for Simultaneous Dehumidification and Power Generation. Advanced Materials, 2019, 31, e1902963.	21.0	55
12	Portable Trilayer Photothermal Structure for Hybrid Energy Harvesting and Synergic Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 38674-38682.	8.0	42
13	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
14	Photosynthetic apparatus of Rhodobacter sphaeroides exhibits prolonged charge storage. Nature Communications, 2019, 10, 902.	12.8	40
15	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
16	Optical manipulation of work function contrasts on metal thin films. Science Advances, 2018, 4, eaao6050.	10.3	34
17	Emerging Role of the Band-Structure Approach in Biohybrid Photovoltaics: A Path Beyond Bioelectrochemistry. Advanced Functional Materials, 2018, 28, 1705305.	14.9	48
18	A Mechanoresponsive Phase-Changing Electrolyte Enables Fabrication of High-Output Solid-State Photobioelectrochemical Devices from Pigment-Protein Multilayers. Advanced Materials, 2018, 30, 1704073.	21.0	43

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19	Biohybrid Photoprotein-Semiconductor Cells with Deep-Lying Redox Shuttles Achieve a 0.7 V Photovoltage. <i>Advanced Functional Materials</i> , 2018, 28, 1703689.	14.9	42
20	Covalent organic nanosheets with large lateral size and high aspect ratio synthesized by Langmuir-Blodgett method. <i>Chinese Chemical Letters</i> , 2018, 29, 869-872.	9.0	14
21	A super hygroscopic hydrogel for harnessing ambient humidity for energy conservation and harvesting. <i>Energy and Environmental Science</i> , 2018, 11, 2179-2187.	30.8	134
22	A Barbeque-Analog Route to Carbonize Moldy Bread for Efficient Steam Generation. <i>IScience</i> , 2018, 3, 31-39.	4.1	50
23	Photosynthetic Bioelectronic Sensors for Touch Perception, UV-Detection, and Nanopower Generation: Toward Self-Powered E-Skins. <i>Advanced Materials</i> , 2018, 30, e1802290.	21.0	62
24	Transparent Nanofibrous Mesh Self-Assembled from Molecular LEGOs for High Efficiency Air Filtration with New Functionalities. <i>Small</i> , 2017, 13, 1601924.	10.0	31
25	Tandem Solar Cells: Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting (<i>Adv. Energy Mater.</i> 7/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	1
26	Enhanced Output from Biohybrid Photoelectrochemical Transparent Tandem Cells Integrating Photosynthetic Proteins Genetically Modified for Expanded Solar Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601821.	19.5	49
27	Inkjet-Printable Hydrochromic Paper for Encrypting Information and Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33071-33079.	8.0	92
28	Progress and perspectives in exploiting photosynthetic biomolecules for solar energy harnessing. <i>Energy and Environmental Science</i> , 2015, 8, 2551-2573.	30.8	100