Dilip Krishna Nandakumar

List of Publications by Year
in descending order

24	1,400	394421 19	642732 23
papers	citations	h-index	g-index

24	24	24	1374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure Architecting for Saltâ€Rejecting Solar Interfacial Desalination to Achieve Highâ€Performance Evaporation With In Situ Energy Generation. Advanced Science, 2020, 7, 1903478.	11.2	224
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	Manipulating unidirectional fluid transportation to drive sustainable solar water extraction and brine-drenching induced energy generation. Energy and Environmental Science, 2020, 13, 4891-4902.	30.8	162
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	Energy Harvesting from Atmospheric Humidity by a Hydrogel-Integrated Ferroelectric-Semiconductor System. Joule, 2020, 4, 176-188.	24.0	94
6	Digestion of Ambient Humidity for Energy Generation. Joule, 2020, 4, 2532-2536.	24.0	94
7	Shadow enhanced self-charging power system for wave and solar energy harvesting from the ocean. Nature Communications, 2021, 12, 616.	12.8	69
8	A Hybrid Artificial Photocatalysis System Splits Atmospheric Water for Simultaneous Dehumidification and Power Generation. Advanced Materials, 2019, 31, e1902963.	21.0	55
9	Super-hygroscopic film for wearables with dual functions of expediting sweat evaporation and energy harvesting. Nano Energy, 2020, 75, 104873.	16.0	52
10	Sustainable Fuel Production from Ambient Moisture via Ferroelectrically Driven MoS₂ Nanosheets. Advanced Materials, 2020, 32, e2000971.	21.0	38
11	Highly efficient photoelectrochemical water oxidation enabled by enhanced interfacial interaction in 2D/1D In₂S₃@Bi₂S₃ heterostructures. Journal of Materials Chemistry A, 2020, 8, 5612-5621.	10.3	35
12	Optical manipulation of work function contrasts on metal thin films. Science Advances, 2018, 4, eaao6050.	10.3	34
13	Machineâ€Learningâ€Assisted Autonomous Humidity Management System Based on Solarâ€Regenerated Super Hygroscopic Complex. Advanced Science, 2021, 8, 2003939.	11.2	34
14	A solar cell that breathes in moisture for energy generation. Nano Energy, 2020, 68, 104263.	16.0	32
15	Energy harvesting from shadow-effect. Energy and Environmental Science, 2020, 13, 2404-2413.	30.8	29
16	High-Performance UV Enhancer Molecules Coupled with Photosynthetic Proteins for Ultra-Low-Intensity UV Detection. CheM, 2019, 5, 1847-1860.	11.7	28
17	Low toxicity environmentally friendly single component aqueous organic ionic conductors for high efficiency photoelectrochemical solar cells. Journal of Materials Chemistry A, 2018, 6, 1009-1016.	10.3	27
18	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

#	Article	IF	Citations
19	Self-powered all weather sensory systems powered by Rhodobacter sphaeroides protein solar cells. Biosensors and Bioelectronics, 2020, 165, 112423.	10.1	20
20	Solar-Driven Gas-Phase Moisture to Hydrogen with Zero Bias. ACS Nano, 2021, 15, 19119-19127.	14.6	16
21	Organic ionic conductors infused aqueous inverse-melting electrolyte aiding crack recovery in flexible supercapacitors functional down toÂâ˜30ÂÂ°C. Materials Today Energy, 2020, 17, 100428.	4.7	14
22	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
23	Sustainable Fuel Production: Sustainable Fuel Production from Ambient Moisture via Ferroelectrically Driven MoS₂ Nanosheets (Adv. Mater. 25/2020). Advanced Materials, 2020, 32, 2070188.	21.0	2
24	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