Santanu Karan

List of Publications by Year
in descending order

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45 papers	3,605 citations	293460 24 h-index	286692 43 g-index
45 all docs	45 docs citations	45 times ranked	4212 citing authors

#	Article	IF	Citations
1	Interfacial synthesis of large-area ultrathin polyimine nanofilms as molecular separation membrane. IScience, 2022, 25, 104027.	1.9	8
2	A realistic approach for determining the pore size distribution of nanofiltration membranes. Separation and Purification Technology, 2022, 293, 121096.	3.9	31
3	Ultraselective and Highly Permeable Polyamide Nanofilms for Ionic and Molecular Nanofiltration. Advanced Functional Materials, 2021, 31, 2007054.	7.8	162
4	Fast water transport through sub-5 nm polyamide nanofilms: the new upper-bound of the permeanceâ€“selectivity trade-off in nanofiltration. Journal of Materials Chemistry A, 2021, 9, 20714-20724.	5.2	31
5	Precise separation of small neutral solutes with mixed-diamine-based nanofiltration membranes and the impact of solvent activation. Separation and Purification Technology, 2021, 279, 119692.	3.9	19
6	Membrane Fouling: Does Microscale Roughness Matter?. Industrial & Engineering Chemistry Research, 2020, 59, 5424-5431.	1.8	31
7	On the influence of salt concentration on the transport properties of reverse osmosis membranes in high pressure and high recovery desalination. Journal of Membrane Science, 2020, 594, 117339.	4.1	14
8	Effect of Porous and Nonporous Nanostructures on the Permeance of Positively Charged Nanofilm Composite Membranes. Advanced Materials Interfaces, 2020, 7, 2000251.	1.9	12
9	Large Area Selfâ€Assembled Ultrathin Polyimine Nanofilms Formed at the Liquidâ€“Liquid Interface Used for Molecular Separation. Advanced Materials, 2020, 32, e1905621.	11.1	59
10	Water Transport through Ultrathin Polyamide Nanofilms Used for Reverse Osmosis. Advanced Materials, 2018, 30, e1705973.	11.1	266
11	Thin Films: Water Transport through Ultrathin Polyamide Nanofilms Used for Reverse Osmosis (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	11.1	7
12	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. Advanced Functional Materials, 2017, 27, 1701738.	7.8	47
13	Organic fouling behaviour of structurally and chemically different forward osmosis membranes â€“ A study of cellulose triacetate and thin film composite membranes. Journal of Membrane Science, 2016, 520, 247-261.	4.1	79
14	Subâ€“10 nm polyamide nanofilms with ultrafast solvent transport for molecular separation. Science, 2015, 348, 1347-1351.	6.0	1,461
15	Membranes: Ultrathin Polymer Films with Intrinsic Microporosity: Anomalous Solvent Permeation and High Flux Membranes (Adv. Funct. Mater. 30/2014). Advanced Functional Materials, 2014, 24, 4728-4728.	7.8	3
16	Ultrathin Polymer Films with Intrinsic Microporosity: Anomalous Solvent Permeation and High Flux Membranes. Advanced Functional Materials, 2014, 24, 4729-4737.	7.8	235
17	Ultrathin free-standing membranes from metal hydroxide nanostrands. Journal of Membrane Science, 2013, 448, 270-291.	4.1	31
18	Effect of cadmium sulfide nanorod content on Freedericksz threshold voltage, splay and bend elastic constants in liquid-crystal nanocomposites. Journal Physics D: Applied Physics, 2012, 45, 235303.	1.3	10

#	Article	IF	Citations
19	Ultrafast Viscous Permeation of Organic Solvents Through Diamond-Like Carbon Nanosheets. Science, 2012, 335, 444-447.	6.0	322
20	Controlled surface trap state photoluminescence from CdS QDs impregnated in poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.6	42
21	Thickness dependent surface electrical conductivity in copper (II) phthalocyanine thin films. Thin Solid Films, 2012, 520, 2343-2350.	0.8	8
22	Electric-Field-Induced Formation of Multiwalled Carbon Nanotube Conductive Pathways in Positive Dielectric Anisotropic Nematic Liquid Crystal Host. Japanese Journal of Applied Physics, 2011, 50, 121701.	0.8	1
23	Study of steady state and time resolved photoluminescence of thiol capped CdS nanocrystalline powders dispersed in N,N-dimethylformamide. Journal of Luminescence, 2011, 131, 2792-2802.	1.5	23
24	Electric-Field-Induced Formation of Multiwalled Carbon Nanotube Conductive Pathways in Positive Dielectric Anisotropic Nematic Liquid Crystal Host. Japanese Journal of Applied Physics, 2011, 50, 121701.	0.8	3
25	Persistence in photoconductivity and optical property of nanostructured copper (II) phthalocyanine thin films. Current Applied Physics, 2010, 10, 1117-1122.	1.1	17
26	Synthesis of a zinc oxide nanosheetâ€“nanowire network complex by a low-temperature chemical route: Efficient UV detection and field emission property. Scripta Materialia, 2010, 62, 305-308.	2.6	23
27	Synthesis of thiol capped CdS nanocrystallites using microwave irradiation and studies on their steady state and time resolved photoluminescence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 76, 115-121.	2.0	22
28	Micro-structural investigations and paramagnetic susceptibilities of zinc oxide, europium oxide and their nanocomposite. Journal of Magnetism and Magnetic Materials, 2010, 322, 283-289.	1.0	14
29	Static and dynamic magnetic behavior of nanocrystalline and nanocomposites of (Mn0.6Zn0.4Fe2O4)(1â^'z)(SiO2)zâ€^(z=0.0,0.10,0.15,0.25). Journal of Applied Physics, 2010, 108, .	1.1	32
30	Study of Quantum Yield and Photoluminescence of Thiol Capped CdS Nanocrystallites. , 2009, , .		1
31	Preparation and characterizations of SiO2-coated nanoparticles of Mn0.4Zn0.6Fe2O4. Journal of Magnetism and Magnetic Materials, 2009, 321, 169-174.	1.0	24
32	Ultrathin Nanofibrous Films Prepared from Cadmium Hydroxide Nanostrands and Anionic Surfactants. Langmuir, 2009, 25, 8514-8518.	1.6	21
33	Enhanced optical and field emission properties of CTAB-assisted hydrothermal grown ZnO nanorods. Applied Surface Science, 2008, 254, 7266-7271.	3.1	38
34	Nanoflowers Grown from Phthalocyanine Seeds:â€‰ Organic Nanorectifiers. Journal of Physical Chemistry C, 2008, 112, 2436-2447.	1.5	35
35	Nanostructured organicâ€“inorganic photodiodes with high rectification ratio. Nanotechnology, 2008, 19, 495202.	1.3	36
36	Power spectral density analysis and photoconducting behavior in copper(ii) phthalocyanine nanostructured thin films. Physical Chemistry Chemical Physics, 2008, 10, 6751.	1.3	32

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37	Bias dependent dielectric relaxation dynamics of electrically tuned large-scale aligned zinc oxide nanorods in nematic liquid crystal host. Applied Physics Letters, 2008, 93, .	1.5	22
38	Tunable Visible-Light Emission from CdS Nanocrystallites Prepared under Microwave Irradiation. Journal of Physical Chemistry C, 2007, 111, 16734-16741.	1.5	52
39	Templating Effects and Optical Characterization of Copper (II) Phthalocyanine Nanocrystallites Thin Film:â€‰ Nanoparticles, Nanoflowers, Nanocabbages, and Nanoribbons. Journal of Physical Chemistry C, 2007, 111, 7352-7365.	1.5	69
40	Significant modifications in the electrical properties of poly(methyl methacrylate) thin films upon dispersion of silver nanoparticles. Solid State Communications, 2007, 141, 483-487.	0.9	28
41	Effects of annealing on the morphology and optical property of copperÂ(II) phthalocyanine nanostructured thin films. Solid State Communications, 2007, 143, 289-294.	0.9	75
42	Copper phthalocyanine nanoparticles and nanoflowers. Chemical Physics Letters, 2007, 434, 265-270.	1.2	60
43	Spectroscopic properties and photophysics of the synthesized compound 5-nitro-benzo[b]thiophene-2-carboxylic acid in non-polar/polar media and in the presence of TiO2 nanoparticles. Journal of Luminescence, 2007, 127, 541-551.	1.5	0
44	A Twoâ€Dimensional Coordination Compound as a Zinc Ion Selective Luminescent Probe for Biological Applications. Chemistry - an Asian Journal, 2007, 2, 1091-1100.	1.7	39
45	Size selective photoluminescence in poly(methyl methacrylate) thin solid films with dispersed silver nanoparticles synthesized by a novel method. Chemical Physics Letters, 2006, 420, 115-119.	1.2	60