

Puyam S Singh

List of Publications by Year in descending order

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59
papers

1,733
citations

361413

20
h-index

276875

41
g-index

60
all docs

60
docs citations

60
times ranked

2088
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of novel silica-polyamide nanocomposite membrane with enhanced properties. Journal of Membrane Science, 2009, 328, 257-267.	8.2	340
2	Probing the structural variations of thin film composite RO membranes obtained by coating polyamide over polysulfone membranes of different pore dimensions. Journal of Membrane Science, 2006, 278, 19-25.	8.2	320
3	An Ultrahydrophobic Fluorous Metal-Organic Framework Derived Recyclable Composite as a Promising Platform to Tackle Marine Oil Spills. Chemistry - A European Journal, 2016, 22, 10937-10943.	3.3	91
4	Limiting thickness of polyamide-polysulfone thin-film-composite nanofiltration membrane. Desalination, 2014, 346, 19-29.	8.2	75
5	Preparation of ultra-thin poly(vinyl alcohol) membranes supported on polysulfone hollow fiber and their application for production of pure water from seawater. Desalination, 2015, 367, 272-284.	8.2	60
6	Rapid Synthesis of Al-Containing Mesoporous Silica Hard Spheres of 30~50 nm Diameter. Chemistry of Materials, 2001, 13, 2476-2482.	6.7	58
7	Influence of film thickness on the structure and properties of PDMS membrane. Journal of Membrane Science, 2012, 415-416, 624-634.	8.2	56
8	Preparation and characterization of highly micro-porous PVDF membranes for desalination of saline water through vacuum membrane distillation. Desalination, 2014, 346, 9-18.	8.2	56
9	SANS study to probe nanoparticle dispersion in nanocomposite membranes of aromatic polyamide and functionalized silica nanoparticles. Journal of Colloid and Interface Science, 2010, 351, 304-314.	9.4	40
10	Light and X-ray scattering from the early growth stages of zeolite. A Part I. Physical Chemistry Chemical Physics, 1999, 1, 4125-4130.	2.8	38
11	Characterization of physical structure of silica nanoparticles encapsulated in polymeric structure of polyamide films. Journal of Colloid and Interface Science, 2008, 326, 176-185.	9.4	37
12	A facile one-step preparation method of recyclable superhydrophobic polypropylene membrane for oil-water separation. RSC Advances, 2016, 6, 61129-61136.	3.6	33
13	Characterization of MeAPO-11s synthesized conventionally and in the presence of fluoride ions and their catalytic properties in the oxidation of ethylbenzene. Applied Catalysis A: General, 1999, 177, 149-159.	4.3	32
14	Fabrication of efficient pervaporation desalination membrane by reinforcement of poly(vinyl) Tj ETQqO O rgBT /Overlock 10 Tf 50 227 135, 45718.	2.6	30
15	Polyaniline@porous polypropylene for efficient separation of acid by diffusion dialysis. Separation and Purification Technology, 2020, 233, 115989.	7.9	30
16	Preparation and characterization of new poly(dimethylsiloxane) membrane series via a cross-linking reaction using monomolecular trichloro(alkyl)silane of different alkyl chain and type. RSC Advances, 2015, 5, 51608-51620.	3.6	25
17	Aniline methylation over AEL type molecular sieves. Applied Catalysis A: General, 1996, 136, 177-189.	4.3	22
18	Compacted Nanoscale Blocks To Build Skin Layers of Reverse Osmosis and Nanofiltration Membranes: A Revelation from Small-Angle Neutron Scattering. Journal of Physical Chemistry C, 2007, 111, 16219-16226.	3.1	21

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19	Characterization of polydimethylsiloxane pervaporation membranes using small-angle neutron scattering. <i>Journal of Membrane Science</i> , 2011, 378, 194-202.	8.2	21
20	Preparation of bifunctional poly(dimethylsiloxane) membrane by dual X-linking. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4893.	10.3	21
21	Nanoscale homogeneity of silica-poly(vinyl alcohol) membranes by controlled cross-linking via sol-gel reaction in acidified and hydrated ethanol. <i>RSC Advances</i> , 2015, 5, 65862-65869.	3.6	20
22	Improved OER Performance on the Carbon Composite Electrode through Tailored Wettability. <i>ACS Applied Energy Materials</i> , 2021, 4, 9618-9626.	5.1	20
23	Cetyltrimethylammonium bromide-silica membrane for seawater desalination through pervaporation. <i>Bulletin of Materials Science</i> , 2015, 38, 565-572.	1.7	19
24	Characterization of SAPO-11 synthesized conventionally and in the presence of fluoride ions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2017.	1.7	18
25	Polyaniline-co-epichlorohydrin nanoporous anion exchange membranes for diffusion dialysis. <i>Polymer</i> , 2019, 170, 168-178.	3.8	17
26	Nucleation and growth of zeolite A under reagent controlled conditions. Part II. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4131-4138.	2.8	15
27	In-situ preparation of polydimethylsiloxane membrane with long hydrophobic alkyl chain for application in separation of dissolved volatile organics from wastewater. <i>Journal of Membrane Science</i> , 2015, 492, 95-106.	8.2	15
28	Preparation and characterization of an oxygen permselective polydimethylsiloxane hollow fibre membrane. <i>RSC Advances</i> , 2016, 6, 88943-88953.	3.6	15
29	Concentrated colloidal solution system for preparation of uniform Zeolite-Y nanocrystals and their gas adsorption properties. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 274-284.	4.4	13
30	Synthesis of Ti-containing Porous Silica with High Photocatalytic Activity. <i>Chemistry Letters</i> , 1999, 28, 9-10.	1.3	12
31	Studies towards understanding the effect of hexane on polysulfone membranes. <i>Polymer Bulletin</i> , 2015, 72, 2157-2169.	3.3	12
32	Structural evolution during nucleation of Si-rich LTA nanocrystals from colloidal solution. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 99-110.	4.4	11
33	Octadecyl-silica-PVDF membrane of superior MD desalination performance. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46043.	2.6	10
34	High oxygen permeable Zeolite-4A poly(dimethylsiloxane) membrane for air separation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48047.	2.6	10
35	An instant oil separation by octadecyl-polysiloxane-reticulated recyclable superhydrophobic polyester fabric. <i>Environmental Technology and Innovation</i> , 2021, 21, 101322.	6.1	10
36	Spectroscopic studies of vanadium incorporated SAPO-11. <i>Journal of Molecular Catalysis A</i> , 1995, 104, 103-110.	4.8	9

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37	Selective acidic, oxidative and reductive reactions over ALPO-11 and Si or metal substituted ALPO-11. Studies in Surface Science and Catalysis, 1995, , 343-350.	1.5	9
38	Scaling-up of robust nanofiltration membrane of ultrathin-film-composite structure. Desalination, 2022, 530, 115650.	8.2	9
39	Preparation of Poly(dimethylsiloxane)-Polysulfone Composite Membrane by Sequential Absorption-Reaction-Evaporation Process and its Application in Treatment of Aqueous Solution Containing Volatile Organics. Separation Science and Technology, 2014, 49, 2834-2846.	2.5	8
40	High surface area nanoporous amorphous silica prepared by dodecanol assisted silica formate sol-gel approach. Journal of Colloid and Interface Science, 2008, 325, 207-214.	9.4	7
41	Alcohol-induced change of reverse osmosis-polyamide membrane surface. Journal of Applied Polymer Science, 2012, 124, E290.	2.6	7
42	Comparison of the initial reactant structure and crosslinked network of poly(dimethyl siloxane) membranes from different macromonomers. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
43	NH ₃ Sorption Isotherms in ALPO-11 and Its Si, Co, and Mn Analogues. Journal of Physical Chemistry B, 1999, 103, 5338-5346.	2.6	6
44	Complexity of silicate/aluminosilicate polymerization: some insights using a small-angle X-ray scattering study. Journal of Applied Crystallography, 2007, 40, s590-s593.	4.5	6
45	Degumming of crude vegetable oil by membrane separation: Probing structure-performance and stability of PVDF membranes. Separation Science and Technology, 2019, 54, 360-369.	2.5	6
46	Influence of hydrophilic silica nanoparticles to the conformation of hydrophilic polymer chain in dilute solution system. Journal of Colloid and Interface Science, 2011, 353, 52-60.	9.4	5
47	Structure-property interplay of asymmetric membranes comprising of soft polydimethylsiloxane chains and hard silica nanomaterials. Polymer, 2019, 160, 30-42.	3.8	5
48	Solvent-resistant polyvinyl alcohol nanofilm with nanopores for high-flux degumming. Journal of Membrane Science, 2022, 650, 120430.	8.2	5
49	Formation of N-methylaniline by transalkylation of aniline with N,N-dimethylaniline over zeolite Beta. Applied Catalysis A: General, 1997, 155, 27-39.	4.3	4
50	Effect of Zeolitic Imidazole Framework-8 nanocrystals on hydrocarbon permselective Poly(dimethylsiloxane) membrane as probed by small-angle neutron scattering. Polymer, 2018, 143, 96-105.	3.8	4
51	Covalently immobilized cobalt Phthalocyanine@MWCNT PDMS hollow fiber membrane for highly selective, reversible and bio-inspired oxygen transport. Journal of Membrane Science, 2021, 624, 119119.	8.2	4
52	Cross-linked thin poly(vinyl alcohol) membrane supported on polysulfone in tea polyphenol separation. Separation Science and Technology, 2019, 54, 343-359.	2.5	3
53	Sequential Template Decomposition to Adjust the Performance of Imperfect Zeolite BEA Membranes. Chemie-Ingenieur-Technik, 2019, 91, 953-960.	0.8	2
54	Synthetic polymer-based membranes for desalination. , 2020, , 23-38.		2

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55	Preparation of new C ₈ H ₄ F ₁₃ -polydimethylsiloxane membranes via a "cross-linking"™ reaction using trichloro(perfluoro-octyl)silanes: Effect of cross-linker amount. Separation Science and Technology, 2019, 54, 329-342.	2.5	1
56	Increase of flow through pores in rationally designed organosilica/PVDF nanocomposite membrane. Journal of Applied Polymer Science, 2021, 138, 50846.	2.6	1
57	Probing initial polymer precursor solution used in poly(dimethylsiloxane) membrane preparation by HPLC-APCI-MS and ESI-MS. Analytical Methods, 2016, 8, 537-547.	2.7	0
58	In-solution structure formation of poly(vinylidene fluoride) building units influencing on the final membrane characteristics. Journal of Applied Polymer Science, 2021, 138, 50133.	2.6	0
59	Underlying core-shell colloidal nanostructure for Beta zeolite membrane formation. Microporous and Mesoporous Materials, 2021, 325, 111349.	4.4	0