

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	Scaling-up of robust nanofiltration membrane of ultrathin-film-composite structure. <i>Desalination</i> , 2022, 530, 115650.	8.2	9
2	Solvent-resistant polyvinyl alcohol nanofilm with nanopores for high-flux degumming. <i>Journal of Membrane Science</i> , 2022, 650, 120430.	8.2	5
3	An instant oil separation by octadecyl-polysiloxane-reticulated recyclable superhydrophobic polyester fabric. <i>Environmental Technology and Innovation</i> , 2021, 21, 101322.	6.1	10
4	In-solution structure formation of poly(vinylidene fluoride) building units influencing on the final membrane characteristics. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50133.	2.6	0
5	Increase of flow-through pores in rationally designed <scp>organosilica@PVDF</scp> nanocomposite membrane. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50846.	2.6	1
6	Covalently immobilized cobalt Phthalocyanine@MWCNT PDMS hollow fiber membrane for highly selective, reversible and bio-inspired oxygen transport. <i>Journal of Membrane Science</i> , 2021, 624, 119119.	8.2	4
7	Improved OER Performance on the Carbon Composite Electrode through Tailored Wettability. <i>ACS Applied Energy Materials</i> , 2021, 4, 9618-9626.	5.1	20
8	Underlying core-shell colloidal nanostructure for Beta zeolite membrane formation. <i>Microporous and Mesoporous Materials</i> , 2021, 325, 111349.	4.4	0
9	Polyaniline@porous polypropylene for efficient separation of acid by diffusion dialysis. <i>Separation and Purification Technology</i> , 2020, 233, 115989.	7.9	30
10	Synthetic polymer-based membranes for desalination. , 2020, , 23-38.		2
11	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. <i>Separation Science and Technology</i> , 2019, 54, 329-342.	2.5	1
12	Degumming of crude vegetable oil by membrane separation: Probing structure-performance and stability of PVDF membranes. <i>Separation Science and Technology</i> , 2019, 54, 360-369.	2.5	6
13	Sequential Template Decomposition to Adjust the Performance of Imperfect Zeolite BEA Membranes. <i>Chemie-Ingenieur-Technik</i> , 2019, 91, 953-960.	0.8	2
14	High oxygen permeable Zeolite@4A poly(dimethylsiloxane) membrane for air separation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48047.	2.6	10
15	Polyaniline-co-epichlorohydrin nanoporous anion exchange membranes for diffusion dialysis. <i>Polymer</i> , 2019, 170, 168-178.	3.8	17
16	Structure-property interplay of asymmetric membranes comprising of soft polydimethylsiloxane chains and hard silica nanomaterials. <i>Polymer</i> , 2019, 160, 30-42.	3.8	5
17	Cross-linked thin poly(vinyl alcohol) membrane supported on polysulfone in tea polyphenol separation. <i>Separation Science and Technology</i> , 2019, 54, 343-359.	2.5	3
18	Effect of Zeolitic Imidazole Framework-8 nanocrystals on hydrocarbon permselective Poly(dimethylsiloxane) membrane as probed by small-angle neutron scattering. <i>Polymer</i> , 2018, 143, 96-105.	3.8	4

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19	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
20	Fabrication of efficient pervaporation desalination membrane by reinforcement of poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 135, 45718.	2.6	30
21	Octadecylâ€silicaâ€PVDF membrane of superior MD desalination performance. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46043.	2.6	10
22	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
23	An Ultrahydrophobic Fluorous Metalâ€Organic Framework Derived Recyclable Composite as a Promising Platform to Tackle Marine Oil Spills. <i>Chemistry - A European Journal</i> , 2016, 22, 10937-10943.	3.3	91
24	Preparation and characterization of an oxygen permselective polydimethylsiloxane hollow fibre membrane. <i>RSC Advances</i> , 2016, 6, 88943-88953.	3.6	15
25	A facile one-step preparation method of recyclable superhydrophobic polypropylene membrane for oilâ€water separation. <i>RSC Advances</i> , 2016, 6, 61129-61136.	3.6	33
26	Probing initial polymer precursor solution used in poly(dimethylsiloxane) membrane preparation by HPLC-APCI-MS and ESI-MS. <i>Analytical Methods</i> , 2016, 8, 537-547.	2.7	0
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	Studies towards understanding the effect of hexane on polysulfone membranes. <i>Polymer Bulletin</i> , 2015, 72, 2157-2169.	3.3	12
29	Comparison of the initial reactant structure and crosslinked network of poly(dimethyl siloxane) membranes from different macromonomers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	7
30	Nanoscale homogeneity of silicaâ€poly(vinyl alcohol) membranes by controlled cross-linking via solâ€gel reaction in acidified and hydrated ethanol. <i>RSC Advances</i> , 2015, 5, 65862-65869.	3.6	20
31	Preparation and characterization of new poly(dimethylsiloxane) membrane series via a â€cross-linkingâ€™ reaction using monomolecular trichloro(alkyl)silane of different alkyl chain and type. <i>RSC Advances</i> , 2015, 5, 51608-51620.	3.6	25
32	Preparation of ultra-thin poly(vinyl alcohol) membranes supported on polysulfone hollow fiber and their application for production of pure water from seawater. <i>Desalination</i> , 2015, 367, 272-284.	8.2	60
33	Cetyltrimethylammonium bromideâ€silica membrane for seawater desalination through pervaporation. <i>Bulletin of Materials Science</i> , 2015, 38, 565-572.	1.7	19
34	Preparation of Poly(dimethylsiloxane)-Polysulfone Composite Membrane by Sequential Absorption-Reaction-Evaporation Process and its Application in Treatment of Aqueous Solution Containing Volatile Organics. <i>Separation Science and Technology</i> , 2014, 49, 2834-2846.	2.5	8
35	Preparation and characterization of highly micro-porous PVDF membranes for desalination of saline water through vacuum membrane distillation. <i>Desalination</i> , 2014, 346, 9-18.	8.2	56
36	Limiting thickness of polyamideâ€polysulfone thin-film-composite nanofiltration membrane. <i>Desalination</i> , 2014, 346, 19-29.	8.2	75

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37	Preparation of bifunctional poly(dimethylsiloxane) membrane by dual X-linking. Journal of Materials Chemistry A, 2013, 1, 4893.	10.3	21
38	Influence of film thickness on the structure and properties of PDMS membrane. Journal of Membrane Science, 2012, 415-416, 624-634.	8.2	56
39	Alcohol-induced change of reverse osmosis-polyamide membrane surface. Journal of Applied Polymer Science, 2012, 124, E290.	2.6	7
40	Characterization of polydimethylsiloxane pervaporation membranes using small-angle neutron scattering. Journal of Membrane Science, 2011, 378, 194-202.	8.2	21
41	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
42	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
43	Synthesis of novel silica-polyamide nanocomposite membrane with enhanced properties. Journal of Membrane Science, 2009, 328, 257-267.	8.2	340
44	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
45	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
46	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
47	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
48	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
49	Rapid Synthesis of Al-Containing Mesoporous Silica Hard Spheres of 30~50 nm Diameter. Chemistry of Materials, 2001, 13, 2476-2482.	6.7	58
50	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
51	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
52	Nucleation and growth of zeolite A under reagent controlled conditions. Part II. Physical Chemistry Chemical Physics, 1999, 1, 4131-4138.	2.8	15
53	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
54	Synthesis of Ti-containing Porous Silica with High Photocatalytic Activity. Chemistry Letters, 1999, 28, 9-10.	1.3	12

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55	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
56	Characterization of SAPO-11 synthesized conventionally and in the presence of fluoride ions. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2017.	1.7	18
57	Aniline methylation over AEL type molecular sieves. Applied Catalysis A: General, 1996, 136, 177-189.	4.3	22
58	Spectroscopic studies of vanadium incorporated SAPO-11. Journal of Molecular Catalysis A, 1995, 104, 103-110.	4.8	9
59	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