

Evangelos P Favvas

List of Publications by Year in descending order

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74
papers

2,884
citations

218677

26
h-index

175258

52
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75
all docs

75
docs citations

75
times ranked

3653
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the CO ₂ enhanced oil recovery process at the nanoscale: an <i>in situ</i> neutron scattering study. <i>Energy Advances</i> , 2022, 1, 67-75.	3.3	2
2	The Optimization of Dispersion and Application Techniques for Nanocarbon-Doped Mixed Matrix Gas Separation Membranes. <i>Membranes</i> , 2022, 12, 87.	3.0	6
3	Graphene nanoplatelets based polyimide/Pebax dual-layer mixed matrix hollow fiber membranes for CO ₂ /CH ₄ and He/N ₂ separations. <i>International Journal of Greenhouse Gas Control</i> , 2022, 114, 103588.	4.6	16
4	Dispersion of Multi-Walled Carbon Nanotubes into White Cement Mortars: The Effect of Concentration and Surfactants. <i>Nanomaterials</i> , 2022, 12, 1031.	4.1	27
5	Long-term performance of highly selective carbon hollow fiber membranes for biogas upgrading in the presence of H ₂ S and water vapor. <i>Chemical Engineering Journal</i> , 2022, 448, 137615.	12.7	17
6	CO ₂ /CH ₄ and He/N ₂ Separation Properties and Water Permeability Valuation of Mixed Matrix MWCNTs-Based Cellulose Acetate Flat Sheet Membranes: A Study of the Optimization of the Filler Material Dispersion Method. <i>Nanomaterials</i> , 2021, 11, 280.	4.1	8
7	Nanomaterials in Cementitious Composites: An Update. <i>Molecules</i> , 2021, 26, 1430.	3.8	38
8	Mesoporous silica based copper catalytic materials for potential deNO _x application: Synthesis and characterization. <i>Materials Today: Proceedings</i> , 2021, . .	1.8	0
9	Special issue "Materials and membranes for hydrogen separation/purification processes" <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19704.	7.1	0
10	Hydrogen adsorption simulations in isomorphous borohydride and imidazolate frameworks: Evaluations using interpolation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19778-19787.	7.1	4
11	Bulk nanobubbles, generation methods and potential applications. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 54, 101455.	7.4	53
12	Pure Curcumin Spherulites from Impure Solutions <i>via</i> Nonclassical Crystallization. <i>ACS Omega</i> , 2021, 6, 23884-23900.	3.5	10
13	Bulk nanobubbles: Production and investigation of their formation/stability mechanism. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 371-380.	9.4	103
14	Effect of agitation on batch adsorption process facilitated by using nanobubbles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125440.	4.7	12
15	Preparation of carbon molecular sieve membranes with remarkable CO ₂ /CH ₄ selectivity for high-pressure natural gas sweetening. <i>Journal of Membrane Science</i> , 2020, 614, 118529.	8.2	46
16	Cellulose-based carbon hollow fiber membranes for high-pressure mixed gas separations of CO ₂ /CH ₄ and CO ₂ /N ₂ . <i>Separation and Purification Technology</i> , 2020, 253, 117473.	7.9	32
17	Comparative Evaluation of the Morphological Characteristics of Nanolime Dispersions for the Consolidation of Architectural Monuments. <i>International Journal of Architectural Heritage</i> , 2020, 14, 994-1007.	3.1	8
18	One-step preparation of bilayered films from kraft lignin and cellulose acetate to mimic tree bark. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 831-834.	2.9	1

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19	A Study of the Reinforcement Effect of MWCNTs onto Polyimide Flat Sheet Membranes. <i>Polymers</i> , 2020, 12, 1381.	4.5	7
20	Metal Organic Framework “ Based Mixed Matrix Membranes for Carbon Dioxide Separation: Recent Advances and Future Directions. <i>Frontiers in Chemistry</i> , 2020, 8, 534.	3.6	54
21	Enhancement of Flux Performance in PTFE Membranes for Direct Contact Membrane Distillation. <i>Polymers</i> , 2020, 12, 345.	4.5	25
22	Nanohybrid Graphene-Based Materials for Advanced Wastewater Treatment. , 2020, , 91-123.		0
23	Carbon Membranes for Natural Gas Sweetening. , 2020, , 79-113.		0
24	Screening Cellulose Spinning Parameters for Fabrication of Novel Carbon Hollow Fiber Membranes for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13330-13339.	3.7	45
25	Fundamentals and applications of nanobubbles. <i>Interface Science and Technology</i> , 2019, , 69-99.	3.3	20
26	Nanobubbles effect on heavy metal ions adsorption by activated carbon. <i>Chemical Engineering Journal</i> , 2019, 356, 91-97.	12.7	153
27	Mixed matrix polymeric and carbon hollow fiber membranes with magnetic iron-based nanoparticles and their application in gas mixture separation. <i>Materials Chemistry and Physics</i> , 2019, 223, 220-229.	4.0	26
28	A comparative evaluation of bottom-up and break-down methodologies for the synthesis of calcium hydroxide nanoparticles for the consolidation of architectural monuments. <i>Materials Today: Proceedings</i> , 2018, 5, 27425-27433.	1.8	8
29	A rotating sample cell for in situ measurements of adsorption with x-rays. <i>Review of Scientific Instruments</i> , 2018, 89, 123113.	1.3	3
30	Polymeric Membrane Materials for CO2 Separations. , 2018, , 3-50.		6
31	Preparation and investigation of distinct and shape stable paraffin/SiO2 composite PCM nanospheres. <i>Energy Conversion and Management</i> , 2018, 168, 382-394.	9.2	85
32	Preparation and characterization of graphene oxide as a candidate filler material for the preparation of mixed matrix polyimide membranes. <i>Surface and Coatings Technology</i> , 2018, 349, 1058-1068.	4.8	9
33	Mechanical behavior of MWCNTs based mixed-matrix polymeric and carbon hollow fiber membranes. <i>Separation and Purification Technology</i> , 2017, 183, 21-31.	7.9	11
34	A review of the latest development of polyimide based membranes for CO 2 separations. <i>Reactive and Functional Polymers</i> , 2017, 120, 104-130.	4.1	116
35	Comparison of self-standing and supported graphene oxide membranes prepared by simple filtration: Gas and vapor separation, pore structure and stability. <i>Journal of Membrane Science</i> , 2017, 522, 303-315.	8.2	27
36	Structural Characterization of Calcium Sulfate Bone Graft Substitute Cements. <i>Materials Research</i> , 2016, 19, 1108-1113.	1.3	8

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37	Gas permeance properties of asymmetric carbon hollow fiber membranes at high feed pressures. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 842-851.	4.4	17
38	Modified in situ antimicrobial susceptibility testing method based on cyanobacteria chlorophyll a fluorescence. <i>Journal of Microbiological Methods</i> , 2016, 121, 1-4.	1.6	8
39	Clinoptilolite, a natural zeolite material: Structural characterization and performance evaluation on its dehydration properties of hydrocarbon-based fuels. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 385-391.	4.4	80
40	Phenol functionalized MWCNTs: A dispersion study into polar solvents by small angle neutron scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 496, 94-99.	4.7	6
41	Scanning of Adsorption Hysteresis In Situ with Small Angle X-Ray Scattering. <i>PLoS ONE</i> , 2016, 11, e0164636.	2.5	3
42	On the Formation of Nanobubbles in Vycor Porous Glass during the Desorption of Halogenated Hydrocarbons. <i>Scientific Reports</i> , 2015, 5, 10943.	3.3	15
43	Study of Cu(II) removal by <i>Cystoseira crinitophylla</i> biomass in batch and continuous flow biosorption. <i>Chemical Engineering Journal</i> , 2015, 277, 334-340.	12.7	59
44	Helium and hydrogen selective carbon hollow fiber membranes: The effect of pyrolysis isothermal time. <i>Separation and Purification Technology</i> , 2015, 142, 176-181.	7.9	71
45	Characterization of natural resin materials using water adsorption and various advanced techniques. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 735-743.	2.3	16
46	A facile approach for the development of fine-tuned self-standing graphene oxide membranes and their gas and vapor separation performance. <i>Journal of Membrane Science</i> , 2015, 493, 734-747.	8.2	30
47	In situ SAXS study of dibromomethane adsorption on MCM-41. <i>Microporous and Mesoporous Materials</i> , 2015, 209, 122-125.	4.4	2
48	An in situ antimicrobial susceptibility testing method based on in vivo measurements of chlorophyll <i>a</i> fluorescence. <i>Journal of Microbiological Methods</i> , 2015, 112, 49-54.	1.6	9
49	Water removal from biodiesel/diesel blends and jet fuel using natural resin as dehydration agent. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1812-1818.	1.7	11
50	High purity multi-walled carbon nanotubes: Preparation, characterization and performance as filler materials in co-polyimide hollow fiber membranes. <i>Separation and Purification Technology</i> , 2014, 122, 262-269.	7.9	48
51	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO ₂ /CNT composites. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 65-81.	20.2	80
52	A new fuel (Dâ€“BDâ€“J) from the blending of conventional diesel, biodiesel and JP8. <i>Fuel Processing Technology</i> , 2014, 127, 66-71.	7.2	5
53	Carbon dioxide permeation study through carbon hollow fiber membranes at pressures up to 55 bar. <i>Separation and Purification Technology</i> , 2014, 134, 158-162.	7.9	13
54	Mixed Matrix Hollow Fiber Membranes with enhanced gas permeation properties. <i>Separation and Purification Technology</i> , 2014, 132, 336-345.	7.9	33

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55	Natural resins and their application in antifouling fuel technology. <i>Fuel Processing Technology</i> , 2013, 114, 135-143.	7.2	24
56	A novel method for improving the physicochemical properties of diesel and jet fuel using polyaspartate polymer additives. <i>Fuel</i> , 2013, 104, 155-162.	6.4	18
57	Effect of copper and copper alginate treatment on wool fabric. Study of textile and antibacterial properties. <i>Surface and Coatings Technology</i> , 2013, 235, 24-31.	4.8	54
58	In situ small angle X-ray scattering and benzene adsorption on polymer-based carbon hollow fiber membranes. <i>Adsorption</i> , 2013, 19, 225-233.	3.0	12
59	In situ SAXS investigation of dibromomethane adsorption in ordered mesoporous silica. <i>Adsorption</i> , 2013, 19, 331-338.	3.0	7
60	Strain Sensing of Glass Fiber Reinforced Coupons by Using Carbon Nanotube Doped Resin. , 2013, , .		0
61	Effect of air gap on gas permeance/selectivity performance of BTDA/MDI/MDI copolyimide hollow fiber membranes. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4490-4499.	2.6	8
62	Alginate fibers as photocatalyst immobilizing agents applied in hybrid photocatalytic/ultrafiltration water treatment processes. <i>Water Research</i> , 2012, 46, 1858-1872.	11.3	119
63	Porous alginate aerogel beads for effective and rapid heavy metal sorption from aqueous solutions: Effect of porosity in Cu ²⁺ and Cd ²⁺ ion sorption. <i>Chemical Engineering Journal</i> , 2012, 209, 537-546.	12.7	147
64	A simple equation for accurate mesopore size calculations. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 9-13.	4.4	9
65	A methodology for the morphological and physicochemical characterisation of asymmetric carbon hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011, 375, 113-123.	8.2	33
66	Facile synthesis of carbon supported copper nanoparticles from alginate precursor with controlled metal content and catalytic NO reduction properties. <i>Journal of Hazardous Materials</i> , 2011, 189, 384-390.	12.4	19
67	Metal-carboxylate interactions in metal-alginate complexes studied with FTIR spectroscopy. <i>Carbohydrate Research</i> , 2010, 345, 469-473.	2.3	626
68	Methods of evaluating pore morphology in hybrid organic-inorganic porous materials. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 53-61.	4.4	22
69	Characterization of carbonate rocks by combination of scattering, porosimetry and permeability techniques. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 109-114.	4.4	25
70	Development and characterization of silica-based membranes for hydrogen separation. <i>Journal of Porous Materials</i> , 2008, 15, 551-557.	2.6	26
71	Characterization of highly selective microporous carbon hollow fiber membranes prepared from a commercial co-polyimide precursor. <i>Journal of Porous Materials</i> , 2008, 15, 625-633.	2.6	84
72	Investigating the evolution of N ₂ transport mechanism during the cyclic CVD post-treatment of silica membranes. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 11-24.	4.4	11

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73	New polyimide-polyaniline hollow fibers: Synthesis, characterization and behavior in gas separation. European Polymer Journal, 2007, 43, 5010-5016.	5.4	65
74	Preparation, characterization and gas permeation properties of carbon hollow fiber membranes based on Matrimid® 5218 precursor. Journal of Materials Processing Technology, 2007, 186, 102-110.	6.3	83