

# Fernão D Magalhães

## List of Publications by Year in descending order

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153  
papers

4,712  
citations

109137

35  
h-index

123241

61  
g-index

157  
all docs

157  
docs citations

157  
times ranked

5651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanomaterials for phototherapy of cancer and microbial infections. <i>Carbon</i> , 2022, 190, 194-244.	5.4	24
2	Advances in carbon nanomaterials for immunotherapy. <i>Applied Materials Today</i> , 2022, 27, 101397.	2.3	15
3	Using Graphene-Based Materials for Stiff and Strong Poly(ethylene glycol) Hydrogels. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2312.	1.8	7
4	Fabrication of Polymer/Graphene Biocomposites for Tissue Engineering. <i>Polymers</i> , 2022, 14, 1038.	2.0	8
5	Bone: An Outstanding Composite Material. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3381.	1.3	14
6	Grape Canes ( <i>Vitis vinifera</i> L.) Applications on Packaging and Particleboard Industry: New Bioadhesive Based on Grape Extracts and Citric Acid. <i>Polymers</i> , 2022, 14, 1137.	2.0	12
7	Prediction of formaldehyde and residual methanol concentration in formalin using near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 160-168.	0.8	2
8	New Polymeric Composites Based on Two-Dimensional Nanomaterials for Biomedical Applications. <i>Polymers</i> , 2022, 14, 1464.	2.0	7
9	Formulation and Characterization of a Composite Coating Formulation Based on Acrylic Foam and Cork Granules. <i>Coatings</i> , 2022, 12, 732.	1.2	0
10	Flexible Composite Films Made of EMAA~Na <sup>+</sup> Ionomer: Evaluation of the Influence of Piezoelectric Particles on the Thermal and Mechanical Properties. <i>Polymers</i> , 2022, 14, 2755.	2.0	0
11	Graphene-based materials: the key for the successful application of pHEMA as a blood-contacting device. <i>Biomaterials Science</i> , 2021, 9, 3362-3377.	2.6	14
12	Light-Activated Antimicrobial Surfaces Using Industrial Varnish Formulations to Mitigate the Incidence of Nosocomial Infections. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7567-7579.	4.0	15
13	Graphene-Polymer Composites. <i>Polymers</i> , 2021, 13, 685.	2.0	9
14	High-Yield Production of Nano-Lateral Size Graphene Oxide by High-Power Ultrasonication. <i>Materials</i> , 2021, 14, 1916.	1.3	5
15	Graphene Oxide Topical Administration: Skin Permeability Studies. <i>Materials</i> , 2021, 14, 2810.	1.3	11
16	New Cardoon ( <i>Cynara cardunculus</i> L.) Particleboards Using Cardoon Leaf Extract and Citric Acid as Bio-adhesive. <i>Materials Circular Economy</i> , 2021, 3, 1.	1.6	5
17	Graphene films irradiated with safe low-power NIR-emitting diodes kill multidrug resistant bacteria. <i>Carbon</i> , 2021, 180, 10-21.	5.4	10
18	Effect of Panel Moisture Content on Internal Bond Strength and Thickness Swelling of Medium Density Fiberboard. <i>Polymers</i> , 2021, 13, 114.	2.0	10

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19	Lignosulphonates as an Alternative to Non-Renewable Binders in Wood-Based Materials. <i>Polymers</i> , 2021, 13, 4196.	2.0	19
20	Effect of filler type on properties of PBAT/organoclay nanocomposites. <i>Polymer Bulletin</i> , 2020, 77, 901-917.	1.7	14
21	Incorporation of graphene oxide into poly(É-caprolactone) 3D printed fibrous scaffolds improves their antimicrobial properties. <i>Materials Science and Engineering C</i> , 2020, 109, 110537.	3.8	28
22	Near-Infrared Radiation-Based Mild Photohyperthermia Therapy of Non-Melanoma Skin Cancer with PEGylated Reduced Nanographene Oxide. <i>Polymers</i> , 2020, 12, 1840.	2.0	23
23	Low-Density Cardoon ( <i>Cynara cardunculus</i> L.) Particleboards Bound with Potato Starch-Based Adhesive. <i>Polymers</i> , 2020, 12, 1799.	2.0	8
24	Effects of resin content on mechanical properties of cork-based panels bound with melamine-urea-formaldehyde and polyurethane binders. <i>International Journal of Adhesion and Adhesives</i> , 2020, 101, 102632.	1.4	4
25	Study of the synthesis parameters of a urea-formaldehyde resin synthesized according to alkaline-acid process. <i>International Journal of Adhesion and Adhesives</i> , 2020, 102, 102646.	1.4	5
26	Graphene Surfaces Interaction with Proteins, Bacteria, Mammalian Cells, and Blood Constituents: The Impact of Graphene Platelet Oxidation and Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21020-21035.	4.0	34
27	Use of Multi-Hollow Polyester Particles as Opacifying Agent for Injection-Molded Polyethylene. <i>Polymers</i> , 2020, 12, 1331.	2.0	4
28	Exposure of Smaller and Oxidized Graphene on Polyurethane Surface Improves its Antimicrobial Performance. <i>Nanomaterials</i> , 2020, 10, 349.	1.9	19
29	Experiment and modelling of the strain-rate-dependent response during in vitro degradation of PLA fibres. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
30	Low Density Wood Particleboards Bonded with Starch Foam—Study of Production Process Conditions. <i>Materials</i> , 2019, 12, 1975.	1.3	17
31	Graphene oxide-reinforced poly(2-hydroxyethyl methacrylate) hydrogels with extreme stiffness and high-strength. <i>Composites Science and Technology</i> , 2019, 184, 107819.	3.8	26
32	Effect of peroxide oxidation on the expansion of potato starch foam. <i>Industrial Crops and Products</i> , 2019, 137, 428-435.	2.5	25
33	Biosourced Disposable Trays Made of Brewer’s Spent Grain and Potato Starch. <i>Polymers</i> , 2019, 11, 923.	2.0	18
34	Improvement of storage stability of UF resins by adding caprolactam. <i>International Journal of Adhesion and Adhesives</i> , 2019, 92, 105-110.	1.4	5
35	Intramedullary nailing biomechanics: Evolution and challenges. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 295-308.	1.0	37
36	Impact of the Synthesis Procedure on Urea-Formaldehyde Resins Prepared by Alkaline—Acid Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 5665-5676.	1.8	7

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37	Carbon Membranes with Extremely High Separation Factors and Stability. <i>Energy Technology</i> , 2019, 7, 1801089.	1.8	18
38	Effect of spent sulfite liquor on urea-formaldehyde resin performance. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47389.	1.3	7
39	Preparation of carbon molecular sieve membranes from an optimized ionic liquid-regenerated cellulose precursor. <i>Journal of Membrane Science</i> , 2019, 572, 390-400.	4.1	43
40	Fabrication and antimicrobial performance of surfaces integrating graphene-based materials. <i>Carbon</i> , 2018, 132, 709-732.	5.4	70
41	Utilization and characterization of amino resins for the production of wood-based panels with emphasis on particleboards (PB) and medium density fibreboards (MDF). A review. <i>Holzforschung</i> , 2018, 72, 653-671.	0.9	27
42	Biocompatible reinforcement of poly(Lactic acid) with graphene nanoplatelets. <i>Polymer Composites</i> , 2018, 39, E308.	2.3	35
43	Dynamic mechanical analysis and creep-recovery behavior of agglomerated cork. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 133-141.	1.3	19
44	Biosourced Binder for Wood Particleboards Based on Spent Sulfite Liquor and Wheat Flour. <i>Polymers</i> , 2018, 10, 1070.	2.0	13
45	Partial replacement of melamine by benzoguanamine in MUF resins towards improved flexibility of agglomerated cork panels. <i>International Journal of Adhesion and Adhesives</i> , 2018, 87, 142-150.	1.4	10
46	Improving hydrophobic and oleophobic performances of high-pressure laminates. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1685-1695.	1.3	2
47	Reinforcement of Thermoplastic Corn Starch with Crosslinked Starch/Chitosan Microparticles. <i>Polymers</i> , 2018, 10, 985.	2.0	25
48	Introducing flexibility in urea-formaldehyde resins: Copolymerization with polyetheramines. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1834-1843.	2.5	5
49	Copolymerization of UF Resins with Dimethylurea for Improving Storage Stability without Impairing Adhesive Performance. <i>Materials</i> , 2018, 11, 1032.	1.3	9
50	Highly flexible glycol-urea-formaldehyde resins. <i>European Polymer Journal</i> , 2018, 105, 167-176.	2.6	10
51	Blocked melamine-urea-formaldehyde resins and their usage in agglomerated cork panels. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46663.	1.3	8
52	Antimicrobial graphene nanoplatelets coatings for silicone catheters. <i>Carbon</i> , 2018, 139, 635-647.	5.4	48
53	The effect of traditional flame retardants, nanoclays and carbon nanotubes in the fire performance of epoxy resin composites. <i>Fire and Materials</i> , 2017, 41, 111-130.	0.9	40
54	Use of master curves based on time-temperature superposition to predict creep failure of aluminium-glass adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2017, 74, 144-154.	1.4	15

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55	Improvement of storage stability and physicochemical properties by addition of benzoguanamine in melamine-formaldehyde resin synthesis. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45185.	1.3	13
56	Recent developments on intramedullary nailing: a biomechanical perspective. <i>Annals of the New York Academy of Sciences</i> , 2017, 1408, 20-31.	1.8	16
57	Determination of resin and moisture content in melamine-formaldehyde paper using near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2017, 25, 311-323.	0.8	7
58	Coke combustion in fluidized bed: A multi-disciplinary lab experiment. <i>Education for Chemical Engineers</i> , 2017, 19, 13-22.	2.8	3
59	Poly(lactic acid) Composites Containing Carbon-Based Nanomaterials: A Review. <i>Polymers</i> , 2017, 9, 269.	2.0	109
60	Oxidized Xanthan Gum and Chitosan as Natural Adhesives for Cork. <i>Polymers</i> , 2016, 8, 259.	2.0	41
61	Low Density Wood-Based Particleboards Bonded with Foamable Sour Cassava Starch: Preliminary Studies. <i>Polymers</i> , 2016, 8, 354.	2.0	26
62	Natural Additive for Reducing Formaldehyde Emissions in Urea-Formaldehyde Resins. <i>Journal of Renewable Materials</i> , 2016, 4, 41-46.	1.1	9
63	Polymer surface adsorption as a strategy to improve the biocompatibility of graphene nanoplatelets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 818-824.	2.5	39
64	Postformable and Self-Healing Finish Foil Based on Polyurethane-Impregnated Paper. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 12376-12386.	1.8	9
65	Effect of biodegradation on thermo-mechanical properties and biocompatibility of poly(lactic) Tj ETQq1 1 0.784314,rgBT /Overlock 10 T	2.6	38
66	Influence of oxidized graphene nanoplatelets and [DMIM][NTf2] ionic liquid on the tribological performance of an epoxy-PTFE coating. <i>Tribology International</i> , 2016, 97, 478-489.	3.0	29
67	Synthesis of multihollow polyester particles in supra- and infra-millimeter size ranges by double emulsion process. <i>Polymer Engineering and Science</i> , 2016, 56, 590-597.	1.5	1
68	Production of water tolerant melamine-urea-formaldehyde resin by incorporation of sodium metabisulphite. <i>International Journal of Adhesion and Adhesives</i> , 2016, 70, 160-166.	1.4	9
69	Smaller particle size and higher oxidation improves biocompatibility of graphene-based materials. <i>Carbon</i> , 2016, 99, 318-329.	5.4	62
70	Effect of binder on performance of intumescent coatings. <i>Journal of Coatings Technology Research</i> , 2016, 13, 227-238.	1.2	22
71	Viscoplastic model analysis about the influence of graphene reinforcement in poly (lactic acid) time-dependent mechanical behaviour. <i>International Journal of Automotive Composites</i> , 2015, 1, 244.	0.1	5
72	Preparation of robust polyamide microcapsules by interfacial polycondensation of p-phenylenediamine and sebacoyl chloride and plasticization with oleic acid. <i>Journal of Microencapsulation</i> , 2015, 32, 349-357.	1.2	3

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73	Tribological Performance of PTFE-based Coating Modified with Microencapsulated [HMIM][NTf <sub>2</sub> ] Ionic Liquid. <i>Tribology Letters</i> , 2015, 59, 1.	1.2	51
74	From mechanical stimulus to bone formation: A review. <i>Medical Engineering and Physics</i> , 2015, 37, 719-728.	0.8	100
75	Impact of thermal treatment on bonding performance of UF/PVAc formulations. <i>International Wood Products Journal</i> , 2014, 5, 212-216.	0.6	2
76	Formaldehyde emission in wood based panels: effect of curing reactions. <i>International Wood Products Journal</i> , 2014, 5, 146-150.	0.6	9
77	Effect of curing conditions on the properties of multivesiculated polyester particle dispersions. <i>Polymer Engineering and Science</i> , 2014, 54, 396-403.	1.5	4
78	Evaluation of Bonding Performance of Amino Polymers Using ABES. <i>Journal of Adhesion</i> , 2014, 90, 80-88.	1.8	12
79	The influence of scavengers on VOC emissions in particleboards made from pine and poplar. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 117-121.	1.3	8
80	Physicomechanical characterization of monodisperse multivesiculated polyester particles. <i>European Polymer Journal</i> , 2014, 58, 173-179.	2.6	4
81	Stabilization of nano-TiO <sub>2</sub> aqueous dispersions with poly(ethylene glycol)-b-poly(4-vinyl pyridine) block copolymer and their incorporation in photocatalytic acrylic varnishes. <i>Progress in Organic Coatings</i> , 2014, 77, 1741-1749.	1.9	17
82	Incorporation of an acrylic fatty acid derivative as comonomer for oxidative cure in acrylic latex. <i>Journal of Coatings Technology Research</i> , 2014, 11, 765-773.	1.2	6
83	Development of phenol-formaldehyde resin with low formaldehyde emissions that respects LEED certification. <i>International Wood Products Journal</i> , 2014, 5, 161-167.	0.6	2
84	Preparation and characterization of acrylic polymer nanocomposite films obtained from aqueous dispersions. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2536-2543.	1.3	7
85	Effect of incorporation of graphene oxide and graphene nanoplatelets on mechanical and gas permeability properties of poly(lactic acid) films. <i>Polymer International</i> , 2013, 62, 33-40.	1.6	261
86	Scavengers for achieving zero formaldehyde emission of wood-based panels. <i>Wood Science and Technology</i> , 2013, 47, 1261-1272.	1.4	87
87	Determination of melamine content in amino resins by near-infrared spectroscopy. <i>Wood Science and Technology</i> , 2013, 47, 939-948.	1.4	7
88	Dispersion of graphene nanoplatelets in poly(vinyl acetate) latex and effect on adhesive bond strength. <i>Polymer International</i> , 2013, 62, 928-935.	1.6	23
89	Adhesive bond strength development evaluation using ABES in different lignocellulosic materials. <i>International Journal of Adhesion and Adhesives</i> , 2013, 47, 105-109.	1.4	13
90	Low VOC self-crosslinking waterborne acrylic coatings incorporating fatty acid derivatives. <i>Progress in Organic Coatings</i> , 2013, 76, 1691-1696.	1.9	24

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91	Effect of added amines on the morphology of multivesiculated polyester particles. <i>Polymer Engineering and Science</i> , 2013, 53, 2261-2269.	1.5	4
92	Production of monodisperse multivesiculated polyester particles with a T-junction microfluidic device. <i>Chemical Engineering Journal</i> , 2013, 233, 323-330.	6.6	12
93	<sup>13</sup> C NMR study of presence of uron structures in amino adhesives and relation with wood-based panels performance. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4500-4507.	1.3	2
94	Biocompatibility of poly(lactic acid) with incorporated graphene-based materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 229-238.	2.5	136
95	The role of sucrose in amino polymers synthesized by the strongly acid process. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 763-774.	1.4	13
96	Study of multivesiculated polyester particles synthesis by double emulsion process. <i>European Polymer Journal</i> , 2013, 49, 664-674.	2.6	5
97	Graphene-based materials biocompatibility: A review. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 188-202.	2.5	470
98	Sodium metabisulphite as a scavenger of air pollutants for wood-based building materials. <i>International Wood Products Journal</i> , 2013, 4, 242-247.	0.6	18
99	Release of Volatile Compounds from Polymeric Microcapsules Mediated by Photocatalytic Nanoparticles. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-9.	1.4	7
100	Kinetics of the Carbon Dioxide Absorption and Desorption with Amino Acid Salt Solutions using Hollow Fiber Membrane Contactors. <i>Procedia Engineering</i> , 2012, 44, 1223-1224.	1.2	2
101	Viscosity determination of amino resins during synthesis using near-infrared spectroscopy. <i>International Wood Products Journal</i> , 2012, 3, 64-66.	0.6	8
102	Study of influence of synthesis conditions on properties of melamine-urea formaldehyde resins. <i>International Wood Products Journal</i> , 2012, 3, 51-57.	0.6	21
103	Synthesis and characterization of acrylic fatty acid derivative and use as reactive coalescing agent. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1175-1182.	1.0	13
104	Synthesis and Characterization of Allyl Fatty Acid Derivatives as Reactive Coalescing Agents for Latexes. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 2215-2226.	0.8	10
105	Nanocomposite acrylic paint with self-cleaning action. <i>Journal of Coatings Technology Research</i> , 2012, 9, 687-693.	1.2	23
106	Use of fluoropolymer permanent release coatings for molded polyurethane foam production. <i>Journal of Coatings Technology Research</i> , 2012, 9, 757-764.	1.2	10
107	Alternative to latent catalysts for curing UF resins used in the production of low formaldehyde emission wood-based panels. <i>International Journal of Adhesion and Adhesives</i> , 2012, 33, 56-60.	1.4	59
108	Comparison of UF synthesis by alkaline-acid and strongly acid processes. <i>Journal of Applied Polymer Science</i> , 2012, 123, 1764-1772.	1.3	24

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109	Determination of formaldehyde/urea molar ratio in amino resins by near-infrared spectroscopy. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2441-2448.	1.3	23
110	Production of melamine fortified urea-formaldehyde resins with low formaldehyde emission. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2311-2317.	1.3	54
111	Mechanical study of PLA-PCL fibers during in vitro degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 451-460.	1.5	205
112	Evaluation of urea-formaldehyde adhesives performance by recently developed mechanical tests. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 127-134.	1.4	33
113	New Knudsen effusion apparatus with simultaneous gravimetric and quartz crystal microbalance mass loss detection. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 834-843.	1.0	67
114	Comparative study between a CMS membrane and a CMS adsorbent: Part I – Morphology, adsorption equilibrium and kinetics. <i>Journal of Membrane Science</i> , 2010, 346, 15-25.	4.1	38
115	Comparative study between a CMS membrane and a CMS adsorbent: Part II. Water vapor adsorption and surface chemistry. <i>Journal of Membrane Science</i> , 2010, 346, 26-36.	4.1	13
116	Carbon molecular sieve membranes from cellophane paper. <i>Journal of Membrane Science</i> , 2010, 350, 180-188.	4.1	55
117	Treatment of Waters Containing the Thiocarbamate Herbicide Molinate through an Adsorption/Bio-Regeneration System using a Low-Cost Adsorbent. <i>Water, Air, and Soil Pollution</i> , 2010, 207, 289-298.	1.1	5
118	A study on the colloidal nature of urea-formaldehyde resins and its relation with adhesive performance. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1956-1968.	1.3	13
119	Separation of nitrogen from air by carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2010, 350, 139-147.	4.1	19
120	Characterization of Urea-Formaldehyde Resins by GPC/SEC and HPLC Techniques: Effect of Ageing. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1535-1551.	1.4	21
121	Optimization of the Synthesis of Urea-Formaldehyde Resins using Response Surface Methodology. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1454-1471.	1.4	18
122	Influence of Pyrolysis Parameters on the Performance of CMSM. <i>International Journal of Chemical Engineering</i> , 2009, 2009, 1-7.	1.4	3
123	Carbon dioxide removal from anaesthetic gas circuits using hollow fiber membrane contactors with amino acid salt solutions. <i>Journal of Membrane Science</i> , 2009, 339, 275-286.	4.1	19
124	Solubility of carbon dioxide in aqueous solutions of amino acid salts. <i>Chemical Engineering Science</i> , 2009, 64, 1993-2002.	1.9	156
125	LABVIRTUAL – A virtual platform to teach chemical processes. <i>Education for Chemical Engineers</i> , 2009, 4, e9-e19.	2.8	37
126	Aging study of carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2008, 310, 494-502.	4.1	77



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127	Carbon dioxide absorption kinetics in potassium threonate. <i>Chemical Engineering Science</i> , 2008, 63, 3493-3503.	1.9	57
128	Contamination of Zeolites Used in Oxygen Production by PSA: Effects of Water and Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 6197-6203.	1.8	34
129	High-Purity Oxygen Production by Pressure Swing Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 591-599.	1.8	81
130	Xenon recycling in an anaesthetic closed-system using carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2007, 301, 29-38.	4.1	30
131	Characterization of potassium glycinate for carbon dioxide absorption purposes. <i>Chemical Engineering Science</i> , 2007, 62, 6534-6547.	1.9	153
132	Optimization of Medical PSA Units for Oxygen Production. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 1085-1096.	1.8	26
133	Generalized linear driving force approximation for adsorption of multicomponent mixtures. <i>Chemical Engineering Science</i> , 2006, 61, 3519-3531.	1.9	34
134	Novel carbon molecular sieve honeycomb membrane module: configuration and membrane characterization. <i>Carbon</i> , 2005, 43, 809-819.	5.4	23
135	Water adsorption on carbon molecular sieve membranes: Experimental data and isotherm model. <i>Carbon</i> , 2005, 43, 2769-2779.	5.4	82
136	Comparison of finite difference and control volume methods for solving differential equations by G.C. Botte, J.A. Ritter, R.E. White, 24 (2000) 2633-2654. <i>Computers and Chemical Engineering</i> , 2005, 29, 2256-2258.	2.0	2
137	Simulation of separation processes using finite volume method. <i>Computers and Chemical Engineering</i> , 2005, 30, 83-98.	2.0	54
138	On the optimization of cyclic adsorption separation processes. <i>AIChE Journal</i> , 2005, 51, 1377-1395.	1.8	42
139	High-order approximations for intra-particle mass transfer. <i>Chemical Engineering Science</i> , 2004, 59, 4393-4399.	1.9	8
140	Carbon molecular sieve membranes Sorption, kinetic and structural characterization. <i>Journal of Membrane Science</i> , 2004, 241, 275-287.	4.1	113
141	Adaptive multiresolution approach for two-dimensional PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 405-425.	3.4	18
142	2-D wavelet-based adaptive-grid method for the resolution of PDEs. <i>AIChE Journal</i> , 2003, 49, 706-717.	1.8	6
143	Solution of hyperbolic PDEs using a stable adaptive multiresolution method. <i>Chemical Engineering Science</i> , 2003, 58, 1777-1792.	1.9	21
144	Cyclic adsorption separation processes: analysis strategy and optimization procedure. <i>Chemical Engineering Science</i> , 2003, 58, 3143-3158.	1.9	52

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145	Wavelet-based adaptive grid method for the resolution of nonlinear PDEs. <i>AIChE Journal</i> , 2002, 48, 774-785.	1.8	25
146	Modeling catalytic membrane reactors using an adaptive wavelet-based collocation method. <i>Journal of Membrane Science</i> , 2002, 208, 57-68.	4.1	13
147	Adaptive multiresolution approach for solution of hyperbolic PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 3909-3928.	3.4	31
148	Considerations on the performance of hollow-fiber modules with glassy polymeric membranes. <i>Journal of Membrane Science</i> , 2001, 188, 263-277.	4.1	3
149	An approach for the optimization of transient diffusion cell measurements. <i>Canadian Journal of Chemical Engineering</i> , 2001, 79, 840-845.	0.9	2
150	Using wavelets for solving PDEs: an adaptive collocation method. <i>Chemical Engineering Science</i> , 2001, 56, 3305-3309.	1.9	36
151	Diffusion of Cyclohexane and Alkylcyclohexanes in Silicalite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2317-2324.	1.2	40
152	Study of Molecular Transport in Beds of Zeolite Crystallites: A Semiquantitative Modeling of $^{129}\text{Xe}$ NMR Experiments. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2277-2284.	1.2	11
153	Transport of n-paraffins in zeolite T. <i>AIChE Journal</i> , 1996, 42, 68-86.	1.8	28