

# Ferno D Magalhes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148  
papers

3,541  
citations

29  
h-index

53  
g-index

157  
ext. papers

4,071  
ext. citations

4.4  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
148	Carbon nanomaterials for phototherapy of cancer and microbial infections. <i>Carbon</i> , <b>2022</b> , 190, 194-244	10.4	0
147	Advances in carbon nanomaterials for immunotherapy. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101397	6.6	2
146	Using Graphene-Based Materials for Stiff and Strong Poly(ethylene glycol) Hydrogels.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
145	Bone: An Outstanding Composite Material. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3381	2.6	1
144	Grape Canes ( L.) Applications on Packaging and Particleboard Industry: New Bioadhesive Based on Grape Extracts and Citric Acid.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	4
143	Formulation and Characterization of a Composite Coating Formulation Based on Acrylic Foam and Cork Granules. <i>Coatings</i> , <b>2022</b> , 12, 732	2.9	
142	Lignosulphonates as an Alternative to Non-Renewable Binders in Wood-Based Materials. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
141	Graphene Oxide Topical Administration: Skin Permeability Studies. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
140	Graphene-based materials: the key for the successful application of pHEMA as a blood-contacting device. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3362-3377	7.4	4
139	Light-Activated Antimicrobial Surfaces Using Industrial Varnish Formulations to Mitigate the Incidence of Nosocomial Infections. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7567-7579	9.5	7
138	New Cardoon ( <i>Cynara cardunculus</i> L.) Particleboards Using Cardoon Leaf Extract and Citric Acid as Bio-adhesive. <i>Materials Circular Economy</i> , <b>2021</b> , 3, 1	4.3	3
137	Graphene films irradiated with safe low-power NIR-emitting diodes kill multidrug resistant bacteria. <i>Carbon</i> , <b>2021</b> , 180, 10-21	10.4	3
136	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> , <b>2020</b> , 101, 102632	3.4	2
135	Study of the synthesis parameters of a urea-formaldehyde resin synthesized according to alkaline-acid process. <i>International Journal of Adhesion and Adhesives</i> , <b>2020</b> , 102, 102646	3.4	3
134	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> , <b>2020</b> , 12, 21020-21035	9.5	20
133	Use of Multi-Hollow Polyester Particles as Opacifying Agent for Injection-Molded Polyethylene. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
132	Exposure of Smaller and Oxidized Graphene on Polyurethane Surface Improves its Antimicrobial Performance. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8

131	Experiment and modelling of the strain-rate-dependent response during in vitro degradation of PLA fibres. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	2
130	Effect of Panel Moisture Content on Internal Bond Strength and Thickness Swelling of Medium Density Fiberboard. <i>Polymers</i> , <b>2020</b> , 13,	4.5	5
129	Incorporation of graphene oxide into poly( $\epsilon$ -caprolactone) 3D printed fibrous scaffolds improves their antimicrobial properties. <i>Materials Science and Engineering C</i> , <b>2020</b> , 109, 110537	8.3	17
128	Near-Infrared Radiation-Based Mild Photohyperthermia Therapy of Non-Melanoma Skin Cancer with PEGylated Reduced Nanographene Oxide. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
127	Low-Density Cardoon (L.) Particleboards Bound with Potato Starch-Based Adhesive. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
126	Effect of filler type on properties of PBAT/organoclay nanocomposites. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 901-917	4.7	8
125	Effect of peroxide oxidation on the expansion of potato starch foam. <i>Industrial Crops and Products</i> , <b>2019</b> , 137, 428-435	5.9	12
124	Biosourced Disposable Trays Made of Brewer's Spent Grain and Potato Starch. <i>Polymers</i> , <b>2019</b> , 11,	4.5	10
123	Improvement of storage stability of UF resins by adding caprolactam. <i>International Journal of Adhesion and Adhesives</i> , <b>2019</b> , 92, 105-110	3.4	3
122	Intramedullary nailing biomechanics: Evolution and challenges. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2019</b> , 233, 295-308	1.7	18
121	Impact of the Synthesis Procedure on Urea-Formaldehyde Resins Prepared by Alkaline Acid Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 5665-5676	3.9	4
120	Carbon Membranes with Extremely High Separation Factors and Stability. <i>Energy Technology</i> , <b>2019</b> , 7, 1801089	3.5	6
119	Low Density Wood Particleboards Bonded with Starch Foam-Study of Production Process Conditions. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
118	Graphene oxide-reinforced poly(2-hydroxyethyl methacrylate) hydrogels with extreme stiffness and high-strength. <i>Composites Science and Technology</i> , <b>2019</b> , 184, 107819	8.6	15
117	Effect of spent sulfite liquor on urea-formaldehyde resin performance. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47389	2.9	6
116	Preparation of carbon molecular sieve membranes from an optimized ionic liquid-regenerated cellulose precursor. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 390-400	9.6	21
115	Fabrication and antimicrobial performance of surfaces integrating graphene-based materials. <i>Carbon</i> , <b>2018</b> , 132, 709-732	10.4	52
114	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> , <b>2018</b> , 72, 653-671	2	15

113	Biocompatible reinforcement of poly(Lactic acid) with graphene nanoplatelets. <i>Polymer Composites</i> , <b>2018</b> , 39, E308-E320	3	28
112	Dynamic mechanical analysis and creep-recovery behavior of agglomerated cork. <i>European Journal of Wood and Wood Products</i> , <b>2018</b> , 76, 133-141	2.1	13
111	Copolymerization of UF Resins with Dimethylurea for Improving Storage Stability without Impairing Adhesive Performance. <i>Materials</i> , <b>2018</b> , 11,	3.5	8
110	Highly flexible glycol-urea-formaldehyde resins. <i>European Polymer Journal</i> , <b>2018</b> , 105, 167-176	5.2	7
109	Blocked melamine-urea-formaldehyde resins and their usage in agglomerated cork panels. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46663	2.9	6
108	Antimicrobial graphene nanoplatelets coatings for silicone catheters. <i>Carbon</i> , <b>2018</b> , 139, 635-647	10.4	33
107	Biosourced Binder for Wood Particleboards Based on Spent Sulfite Liquor and Wheat Flour. <i>Polymers</i> , <b>2018</b> , 10,	4.5	6
106	Partial replacement of melamine by benzoguanamine in MUF resins towards improved flexibility of agglomerated cork panels. <i>International Journal of Adhesion and Adhesives</i> , <b>2018</b> , 87, 142-150	3.4	6
105	Improving hydrophobic and oleophobic performances of high-pressure laminates. <i>European Journal of Wood and Wood Products</i> , <b>2018</b> , 76, 1685-1695	2.1	1
104	Reinforcement of Thermoplastic Corn Starch with Crosslinked Starch/Chitosan Microparticles. <i>Polymers</i> , <b>2018</b> , 10,	4.5	15
103	Introducing flexibility in urea-formaldehyde resins: Copolymerization with polyetheramines. <i>Journal of Polymer Science Part A</i> , <b>2018</b> , 56, 1834-1843	2.5	3
102	The effect of traditional flame retardants, nanoclays and carbon nanotubes in the fire performance of epoxy resin composites. <i>Fire and Materials</i> , <b>2017</b> , 41, 111-130	1.8	28
101	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> , <b>2017</b> , 74, 144-154	3.4	7
100	Improvement of storage stability and physicochemical properties by addition of benzoguanamine in melamine-formaldehyde resin synthesis. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45185	2.9	10
99	Recent developments on intramedullary nailing: a biomechanical perspective. <i>Annals of the New York Academy of Sciences</i> , <b>2017</b> , 1408, 20-31	6.5	13
98	Determination of resin and moisture content in melamine-formaldehyde paper using near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , <b>2017</b> , 25, 311-323	1.5	6
97	Coke combustion in fluidized bed: A multi-disciplinary lab experiment. <i>Education for Chemical Engineers</i> , <b>2017</b> , 19, 13-22	2.4	3
96	Poly(lactic acid) Composites Containing Carbon-Based Nanomaterials: A Review. <i>Polymers</i> , <b>2017</b> , 9,	4.5	84

95	Postformable and Self-Healing Finish Foil Based on Polyurethane-Impregnated Paper. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12376-12386	3.9	7
94	Effect of biodegradation on thermo-mechanical properties and biocompatibility of poly(lactic acid)/graphene nanoplatelets composites. <i>European Polymer Journal</i> , <b>2016</b> , 85, 431-444	5.2	33
93	Influence of oxidized graphene nanoplatelets and [DMIM][NTf2] ionic liquid on the tribological performance of an epoxy-PTFE coating. <i>Tribology International</i> , <b>2016</b> , 97, 478-489	4.9	22
92	Synthesis of multihollow polyester particles in supra- and infra-millimeter size ranges by double emulsion process. <i>Polymer Engineering and Science</i> , <b>2016</b> , 56, 590-597	2.3	1
91	Production of water tolerant melamine-urea-formaldehyde resin by incorporation of sodium metabisulphite. <i>International Journal of Adhesion and Adhesives</i> , <b>2016</b> , 70, 160-166	3.4	6
90	Smaller particle size and higher oxidation improves biocompatibility of graphene-based materials. <i>Carbon</i> , <b>2016</b> , 99, 318-329	10.4	50
89	Effect of binder on performance of intumescent coatings <b>2016</b> , 13, 227-238		11
88	Oxidized Xanthan Gum and Chitosan as Natural Adhesives for Cork. <i>Polymers</i> , <b>2016</b> , 8,	4.5	20
87	Low Density Wood-Based Particleboards Bonded with Foamable Sour Cassava Starch: Preliminary Studies. <i>Polymers</i> , <b>2016</b> , 8,	4.5	19
86	Natural Additive for Reducing Formaldehyde Emissions in Urea-Formaldehyde Resins. <i>Journal of Renewable Materials</i> , <b>2016</b> , 4, 41-46	2.4	8
85	Polymer surface adsorption as a strategy to improve the biocompatibility of graphene nanoplatelets. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 146, 818-24	6	32
84	Preparation of robust polyamide microcapsules by interfacial polycondensation of p-phenylenediamine and sebacoyl chloride and plasticization with oleic acid. <i>Journal of Microencapsulation</i> , <b>2015</b> , 32, 349-57	3.4	1
83	Tribological Performance of PTFE-based Coating Modified with Microencapsulated [HMIM][NTf2] Ionic Liquid. <i>Tribology Letters</i> , <b>2015</b> , 59, 1	2.8	32
82	From mechanical stimulus to bone formation: A review. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 719-28.	4	72
81	Viscoplastic model analysis about the influence of graphene reinforcement in poly (lactic acid) time-dependent mechanical behaviour. <i>International Journal of Automotive Composites</i> , <b>2015</b> , 1, 244	0.3	3
80	Physicomechanical characterization of monodisperse multivesiculated polyester particles. <i>European Polymer Journal</i> , <b>2014</b> , 58, 173-179	5.2	4
79	Stabilization of nano-TiO2 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> , <b>2014</b> , 77, 1741-1749	4.8	14
78	Incorporation of an acrylic fatty acid derivative as comonomer for oxidative cure in acrylic latex <b>2014</b> , 11, 765-773		4

77	Development of phenol-formaldehyde resin with low formaldehyde emissions that respects LEED certification. <i>International Wood Products Journal</i> , <b>2014</b> , 5, 161-167	0.9	1
76	Impact of thermal treatment on bonding performance of UF/PVAc formulations. <i>International Wood Products Journal</i> , <b>2014</b> , 5, 212-216	0.9	2
75	Formaldehyde emission in wood based panels: effect of curing reactions. <i>International Wood Products Journal</i> , <b>2014</b> , 5, 146-150	0.9	7
74	Effect of curing conditions on the properties of multivesiculated polyester particle dispersions. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 396-403	2.3	3
73	Evaluation of Bonding Performance of Amino Polymers Using ABES <b>2014</b> , 90, 80-88		10
72	The influence of scavengers on VOC emissions in particleboards made from pine and poplar. <i>European Journal of Wood and Wood Products</i> , <b>2014</b> , 72, 117-121	2.1	7
71	Preparation and characterization of acrylic polymer nanocomposite films obtained from aqueous dispersions. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 2536-2543	2.9	5
70	Effect of incorporation of graphene oxide and graphene nanoplatelets on mechanical and gas permeability properties of poly(lactic acid) films. <i>Polymer International</i> , <b>2013</b> , 62, 33-40	3.3	214
69	Scavengers for achieving zero formaldehyde emission of wood-based panels. <i>Wood Science and Technology</i> , <b>2013</b> , 47, 1261-1272	2.5	72
68	Determination of melamine content in amino resins by near-infrared spectroscopy. <i>Wood Science and Technology</i> , <b>2013</b> , 47, 939-948	2.5	6
67	Dispersion of graphene nanoplatelets in poly(vinyl acetate) latex and effect on adhesive bond strength. <i>Polymer International</i> , <b>2013</b> , 62, 928-935	3.3	20
66	Adhesive bond strength development evaluation using ABES in different lignocellulosic materials. <i>International Journal of Adhesion and Adhesives</i> , <b>2013</b> , 47, 105-109	3.4	12
65	Low VOC self-crosslinking waterborne acrylic coatings incorporating fatty acid derivatives. <i>Progress in Organic Coatings</i> , <b>2013</b> , 76, 1691-1696	4.8	15
64	Effect of added amines on the morphology of multivesiculated polyester particles. <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 2261-2269	2.3	3
63	Production of monodisperse multivesiculated polyester particles with a T-junction microfluidic device. <i>Chemical Engineering Journal</i> , <b>2013</b> , 233, 323-330	14.7	12
62	<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> , <b>2013</b> , 130, n/a-n/a	2.9	2
61	Biocompatibility of poly(lactic acid) with incorporated graphene-based materials. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 104, 229-38	6	112
60	The role of sucrose in amino polymers synthesized by the strongly acid process. <i>Journal of Adhesion Science and Technology</i> , <b>2013</b> , 27, 763-774	2	11

59	Study of multivesiculated polyester particles synthesis by double emulsion process. <i>European Polymer Journal</i> , <b>2013</b> , 49, 664-674	5.2	5
58	Graphene-based materials biocompatibility: a review. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 111, 188-202	6	396
57	Sodium metabisulphite as a scavenger of air pollutants for wood-based building materials. <i>International Wood Products Journal</i> , <b>2013</b> , 4, 242-247	0.9	16
56	Release of Volatile Compounds From Polymeric Microcapsules Mediated by Photocatalytic Nanoparticles. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-9	2.1	6
55	Comparison of UF synthesis by alkaline-acid and strongly acid processes. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 1764-1772	2.9	23
54	Determination of formaldehyde/urea molar ratio in amino resins by near-infrared spectroscopy. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2441-2448	2.9	17
53	Production of melamine fortified urea-formaldehyde resins with low formaldehyde emission. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2311-2317	2.9	42
52	Kinetics of the Carbon Dioxide Absorption and Desorption with Amino Acid Salt Solutions using Hollow Fiber Membrane Contactors. <i>Procedia Engineering</i> , <b>2012</b> , 44, 1223-1224		1
51	Viscosity determination of amino resins during synthesis using near-infrared spectroscopy. <i>International Wood Products Journal</i> , <b>2012</b> , 3, 64-66	0.9	7
50	Study of influence of synthesis conditions on properties of melamine-urea formaldehyde resins. <i>International Wood Products Journal</i> , <b>2012</b> , 3, 51-57	0.9	20
49	Synthesis and characterization of acrylic fatty acid derivative and use as reactive coalescing agent. <i>European Journal of Lipid Science and Technology</i> , <b>2012</b> , 114, 1175-1182	3	10
48	Synthesis and Characterization of Allyl Fatty Acid Derivatives as Reactive Coalescing Agents for Latexes. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 2215-2226	1.8	8
47	Nanocomposite acrylic paint with self-cleaning action <b>2012</b> , 9, 687-693		17
46	Use of fluoropolymer permanent release coatings for molded polyurethane foam production <b>2012</b> , 9, 757-764		7
45	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> , <b>2012</b> , 33, 56-60	3.4	50
44	Mechanical study of PLA-PCL fibers during in vitro degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 451-60	4.1	163
43	Evaluation of urea-formaldehyde adhesives performance by recently developed mechanical tests. <i>International Journal of Adhesion and Adhesives</i> , <b>2011</b> , 31, 127-134	3.4	29
42	New Knudsen effusion apparatus with simultaneous gravimetric and quartz crystal microbalance mass loss detection. <i>Journal of Chemical Thermodynamics</i> , <b>2011</b> , 43, 834-843	2.9	57

41	Characterization of Urea-Formaldehyde Resins by GPC/SEC and HPLC Techniques: Effect of Ageing. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 1535-1551	2	20
40	Optimization of the Synthesis of Urea-Formaldehyde Resins using Response Surface Methodology. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 1454-1471	2	17
39	Comparative study between a CMS membrane and a CMS adsorbent: Part I Morphology, adsorption equilibrium and kinetics. <i>Journal of Membrane Science</i> , <b>2010</b> , 346, 15-25	9.6	34
38	Comparative study between a CMS membrane and a CMS adsorbent: Part II. Water vapor adsorption and surface chemistry. <i>Journal of Membrane Science</i> , <b>2010</b> , 346, 26-36	9.6	10
37	Carbon molecular sieve membranes from cellophane paper. <i>Journal of Membrane Science</i> , <b>2010</b> , 350, 180-188	9.6	45
36	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> , <b>2010</b> , 207, 289-298	2.6	5
35	A study on the colloidal nature of urea-formaldehyde resins and its relation with adhesive performance. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, n/a-n/a	2.9	7
34	Separation of nitrogen from air by carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 350, 139-147	9.6	13
33	Influence of Pyrolysis Parameters on the Performance of CMSM. <i>International Journal of Chemical Engineering</i> , <b>2009</b> , 2009, 1-7	2.2	2
32	Carbon dioxide removal from anaesthetic gas circuits using hollow fiber membrane contactors with amino acid salt solutions. <i>Journal of Membrane Science</i> , <b>2009</b> , 339, 275-286	9.6	16
31	Solubility of carbon dioxide in aqueous solutions of amino acid salts. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 1993-2002	4.4	141
30	LABVIRTUAL: a virtual platform to teach chemical processes. <i>Education for Chemical Engineers</i> , <b>2009</b> , 4, e9-e19	2.4	23
29	Contamination of Zeolites Used in Oxygen Production by PSA: Effects of Water and Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 6197-6203	3.9	29
28	Aging study of carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 310, 494-502	9.6	48
27	Carbon dioxide absorption kinetics in potassium threonate. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 3493-3503	4.4	45
26	Xenon recycling in an anaesthetic closed-system using carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , <b>2007</b> , 301, 29-38	9.6	18
25	Characterization of potassium glycinate for carbon dioxide absorption purposes. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 6534-6547	4.4	134
24	High-Purity Oxygen Production by Pressure Swing Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 591-599	3.9	61

23	Optimization of Medical PSA Units for Oxygen Production. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 1085-1096	3.9	18
22	Generalized linear driving force approximation for adsorption of multicomponent mixtures. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 3519-3531	4.4	28
21	Novel carbon molecular sieve honeycomb membrane module: configuration and membrane characterization. <i>Carbon</i> , <b>2005</b> , 43, 809-819	10.4	23
20	Water adsorption on carbon molecular sieve membranes: Experimental data and isotherm model. <i>Carbon</i> , <b>2005</b> , 43, 2769-2779	10.4	56
19	Comparison of finite difference and control volume methods for solving differential equations by G.G. Botte, J.A. Ritter, R.E. White, 24 (2000) 2633-2654. <i>Computers and Chemical Engineering</i> , <b>2005</b> , 29, 2256-2258	4	2
18	Simulation of separation processes using finite volume method. <i>Computers and Chemical Engineering</i> , <b>2005</b> , 30, 83-98	4	42
17	On the optimization of cyclic adsorption separation processes. <i>AIChE Journal</i> , <b>2005</b> , 51, 1377-1395	3.6	39
16	High-order approximations for intra-particle mass transfer. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 4393-4399	4.4	6
15	Carbon molecular sieve membranes Sorption, kinetic and structural characterization. <i>Journal of Membrane Science</i> , <b>2004</b> , 241, 275-287	9.6	83
14	Adaptive multiresolution approach for two-dimensional PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 405-425	5.7	17
13	2-D wavelet-based adaptive-grid method for the resolution of PDEs. <i>AIChE Journal</i> , <b>2003</b> , 49, 706-717	3.6	5
12	Solution of hyperbolic PDEs using a stable adaptive multiresolution method. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 1777-1792	4.4	19
11	Cyclic adsorption separation processes: analysis strategy and optimization procedure. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 3143-3158	4.4	48
10	Wavelet-based adaptive grid method for the resolution of nonlinear PDEs. <i>AIChE Journal</i> , <b>2002</b> , 48, 774-785	3.6	21
9	Modeling catalytic membrane reactors using an adaptive wavelet-based collocation method. <i>Journal of Membrane Science</i> , <b>2002</b> , 208, 57-68	9.6	6
8	Adaptive multiresolution approach for solution of hyperbolic PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 3909-3928	5.7	28
7	Considerations on the performance of hollow-fiber modules with glassy polymeric membranes. <i>Journal of Membrane Science</i> , <b>2001</b> , 188, 263-277	9.6	2
6	An approach for the optimization of transient diffusion cell measurements. <i>Canadian Journal of Chemical Engineering</i> , <b>2001</b> , 79, 840-845	2.3	2

5	Using wavelets for solving PDEs: an adaptive collocation method. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 3305-3309	4.4	29
4	Diffusion of Cyclohexane and Alkylcyclohexanes in Silicalite. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 2317-2324	3.4	40
3	Study of Molecular Transport in Beds of Zeolite Crystallites: Semiquantitative Modeling of $^{129}\text{Xe}$ NMR Experiments. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 2277-2284	3.4	10
2	Transport of n-paraffins in zeolite T. <i>AIChE Journal</i> , <b>1996</b> , 42, 68-86	3.6	28
1	Prediction of formaldehyde and residual methanol concentration in formalin using near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 096703352210783	1.5	1