Margaritis kostoglou

List of Publications by Year
in descending order

263 papers	6,504 citations
70961 41 h-index	123241 61 g-index
267 all docs	267 docs citations
267 times ranked	5596 citing authors

#	Article	IF	Citations
1	SARS-CoV-2 adsorption on suspended solids along a sewerage network: mathematical model formulation, sensitivity analysis, and parametric study. Environmental Science and Pollution Research, 2022, 29, 11304-11319.	2.7	6
2	Relating SARS-CoV-2 shedding rate in wastewater to daily positive tests data: A consistent model based approach. Science of the Total Environment, 2022, 807, 150838.	3.9	23
3	Wetting properties of dehydrated biofilms under different growth conditions. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112245.	2.5	4
4	Paliperidone palmitate depot microspheres based on biocompatible poly(alkylene succinate) polyesters as long-acting injectable formulations. Journal of Drug Delivery Science and Technology, 2022, 68, 103056.	1.4	4
5	Mass Transfer Characteristics of Haemofiltration Modules—Experiments and Modeling. Membranes, 2022, 12, 62.	1.4	1
6	Towards an accurate size distribution of emulsion droplets by merging distributions estimated from different measuring methods. Colloids and Interface Science Communications, 2022, 46, 100569.	2.0	1
7	Simulation tools for membrane scaling in reverse osmosis desalination plants. , 2022, , 657-673.		0
8	Detecting SARS-CoV-2 lineages and mutational load in municipal wastewater and a use-case in the metropolitan area of Thessaloniki, Greece. Scientific Reports, 2022, 12, 2659.	1.6	17
9	The COVID-19 pandemic as inspiration to reconsider epidemic models: A novel approach to spatially homogeneous epidemic spread modeling. Mathematical Biosciences and Engineering, 2022, 19, 9853-9886.	1.0	0
10	Wetting and Imbibition Characteristics of <i>Pseudomonas fluorescens</i> Biofilms Grown on Stainless Steel. Langmuir, 2022, 38, 9810-9821.	1.6	6
11	A physicochemical model for rationalizing SARS-CoV-2 concentration in sewage. Case study: The city of Thessaloniki in Greece. Science of the Total Environment, 2021, 755, 142855.	3.9	38
12	Phosphate Removal Using Polyethylenimine Functionalized Silica-Based Materials. Sustainability, 2021, 13, 1502.	1.6	7
13	A novel device for <i>in situ</i> study of gas adsorption under rotation. Review of Scientific Instruments, 2021, 92, 045106.	0.6	6
14	A Hybrid Device for Enhancing Flotation of Fine Particles by Combining Micro-Bubbles with Conventional Bubbles. Minerals (Basel, Switzerland), 2021, 11, 561.	0.8	11
15	Poly(l-Lactic Acid)-co-poly(Butylene Adipate) New Block Copolymers for the Preparation of Drug-Loaded Long Acting Injectable Microparticles. Pharmaceutics, 2021, 13, 930.	2.0	6
16	Wetting/spreading on porous media and on deformable, soluble structured substrates as a model system for studying the effect of morphology on biofilms wetting and for assessing anti-biofilm methods. Current Opinion in Colloid and Interface Science, 2021, 53, 101426.	3.4	11
17	Effectiveness of Esterification Catalysts in the Synthesis of Poly(Ethylene Vanillate). Catalysts, 2021, 11, 822.	1.6	9
18	Wetting of Dehydrated Hydrophilic <i>Pseudomonas fluorescens</i> Biofilms under the Action of External Body Forces. Langmuir, 2021, 37, 10890-10901.	1.6	8

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19	Reliable fluid–mechanical characterization of haemofilters: Addressing the deficiencies of current standards and practices. Artificial Organs, 2021, 45, 1348-1359.	1.0	2
20	Chloramphenicol Loaded Sponges Based on PVA/Nanocellulose Nanocomposites for Topical Wound Delivery. Journal of Composites Science, 2021, 5, 208.	1.4	7
21	Effect of width/height of the gap between piston and wall on the performance of a novel small volume emulsfication device. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126702.	2.3	2
22	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. International Journal of Pharmaceutics, 2021, 606, 120925.	2.6	19
23	Exceptional heat transfer performance induced by intrinsic flow oscillations during subcooled flow boiling over a copper mesh surface. International Journal of Thermal Sciences, 2021, 168, 107070.	2.6	2
24	Population balance modeling of flotation pulp: The route from process frequency functions to spatially distributed models. Computers and Chemical Engineering, 2021, 155, 107506.	2.0	3
25	Investigation of the catalytic activity and reaction kinetic modeling of two antimony catalysts in the synthesis of poly(ethylene furanoate). Green Chemistry, 2021, 23, 2507-2524.	4.6	24
26	On the Adequacy of Some Low-Order Moments Method to Simulate Certain Particle Removal Processes. Colloids and Interfaces, 2021, 5, 46.	0.9	2
27	Scaling in reverse osmosis desalination plants: A perspective focusing on development of comprehensive simulation tools. Desalination, 2020, 474, 114193.	4.0	45
28	Analysis of temperature effects on the specific energy consumption in reverse osmosis desalination processes. Desalination, 2020, 476, 114213.	4.0	62
29	Droplet size distributions derived from evolution of oil fraction during phase separation of oil-in-water emulsions tracked by electrical impedance spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124292.	2.3	9
30	Effect of agitation on batch adsorption process facilitated by using nanobubbles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125440.	2.3	12
31	Chitosan Derivatives with Mucoadhesive and Antimicrobial Properties for Simultaneous Nanoencapsulation and Extended Ocular Release Formulations of Dexamethasone and Chloramphenicol Drugs. Pharmaceutics, 2020, 12, 594.	2.0	40
32	Quantifying the Effect of COD to TN Ratio, DO Concentration and Temperature on Filamentous Microorganisms' Population and Trans-Membrane Pressure (TMP) in Membrane Bio-Reactors (MBR). Processes, 2020, 8, 1514.	1.3	6
33	Enhancement of ozonation efficiency employing dead-end hollow fiber membranes. Environmental Science: Water Research and Technology, 2020, 6, 2619-2627.	1.2	4
34	Method development for experimental determination οf key fluid-mechanical parameters of haemo-catharsis modules. Journal of Membrane Science, 2020, 611, 118353.	4.1	6
35	An Analytical Two-Dimensional Linearized Droplet Shape Model for Combined Tangential and Normal Body Forces. Colloids and Interfaces, 2020, 4, 35.	0.9	3
36	Dissolution Enhancement and Controlled Release of Paclitaxel Drug via a Hybrid Nanocarrier Based on mPEG-PCL Amphiphilic Copolymer and Fe-BTC Porous Metal-Organic Framework. Nanomaterials, 2020, 10, 2490.	1.9	17

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37	On a generalized framework for turbulent collision frequency models in flotation: The road from past inconsistencies to a concise algebraic expression for fine particles. Advances in Colloid and Interface Science, 2020, 284, 102270.	7.0	12
38	Effect of Poly(vinyl alcohol) on Nanoencapsulation of Budesonide in Chitosan Nanoparticles via Ionic Gelation and Its Improved Bioavailability. Polymers, 2020, 12, 1101.	2.0	31
39	Longevity Aspects of Potable Water Disinfected by Ionic Silver: Kinetic Experiments and Modeling. Water (Switzerland), 2020, 12, 258.	1.2	6
40	Formulation and In-Vitro Characterization of Chitosan-Nanoparticles Loaded with the Iron Chelator Deferoxamine Mesylate (DFO). Pharmaceutics, 2020, 12, 238.	2.0	65
41	An Innovative Miniature Pulsating Emulsification Device: Flow Characterization and Measurement of Emulsion Stability. Colloids and Interfaces, 2020, 4, 7.	0.9	3
42	A critical review on turbulent collision frequency/efficiency models in flotation: Unravelling the path from general coagulation to flotation. Advances in Colloid and Interface Science, 2020, 279, 102158.	7.0	17
43	New Biodegradable Poly(l-lactide)-Block-Poly(propylene adipate) Copolymer Microparticles for Long-Acting Injectables of Naltrexone Drug. Polymers, 2020, 12, 852.	2.0	14
44	Toward Incorporation of Membrane Properties Non-Uniformity in Spiral Wound Module Performance Simulators—Effect of Non-Uniform Permeability on Fouling Layer Evolution. Fluids, 2019, 4, 127.	0.8	3
45	Capturing Mesenchymal Stem Cell Heterogeneity during Osteogenic Differentiation: An Experimental–Modeling Approach. Industrial & Engineering Chemistry Research, 2019, 58, 13900-13909.	1.8	6
46	Morphology-dependent random binary fragmentation of in silico fractal-like agglomerates. Europhysics Letters, 2019, 127, 46002.	0.7	3
47	Evaluation of Dissolution Enhancement of Aprepitant Drug in Ternary Pharmaceutical Solid Dispersions with Soluplus® and Poloxamer 188 Prepared by Melt Mixing. Sci, 2019, 1, 48.	1.8	13
48	A Note on Liquid Velocities Arising during Decompression Degassing in Hypergravity. Microgravity Science and Technology, 2019, 31, 505-515.	0.7	1
49	Mesoporous Silica SBA-15 Particles in a Detergent Solution as Abrasive and Coating Material for Household Care Cleaning Products. Colloids and Interfaces, 2019, 3, 12.	0.9	2
50	Subcooled flow boiling in horizontal and vertical macro-channel under Earth-gravity and hyper-gravity conditions. International Journal of Heat and Mass Transfer, 2019, 133, 36-51.	2.5	16
51	Sessile droplets shape response to complex body forces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 97-106.	2.3	10
52	Preparation and characterization of Alendronate depot microspheres based on novel poly(-ϵ-caprolactone)/Vitamin E TPGS copolymers. International Journal of Pharmaceutics: X, 2019, 1, 100014.	1.2	14
53	Aprepitant Drug in Ternary Pharmaceutical Solid Dispersions with Soluplus® and Poloxamer 188 Prepared by Melt Mixing. Sci, 2019, 1, 29.	1.8	6
54	Oxidative Reactivity of Particulate Samples from Different Diesel Combustion Systems and Its Relation to Structural and Spectral Characteristics of Soot. Emission Control Science and Technology, 2019, 5, 99-123.	0.8	11

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55	Degassing of a decompressed flowing liquid under hypergravity conditions. International Journal of Multiphase Flow, 2019, 115, 126-136.	1.6	6
56	Chitosan Grafted Adsorbents for Diclofenac Pharmaceutical Compound Removal from Single-Component Aqueous Solutions and Mixtures. Polymers, 2019, 11, 497.	2.0	43
57	Prediction of spatial-temporal evolution of membrane scaling in spiral wound desalination modules by an advanced simulator. Desalination, 2019, 458, 34-44.	4.0	8
58	Contact Angle Profiles for Droplets on Omniphilic Surfaces in the Presence of Tangential Forces. Colloids and Interfaces, 2019, 3, 60.	0.9	3
59	Unifying boiling and degassing theories: Self-similar and pseudo-steady state analysis. International Journal of Thermal Sciences, 2019, 146, 106114.	2.6	0
60	Nanobubbles effect on heavy metal ions adsorption by activated carbon. Chemical Engineering Journal, 2019, 356, 91-97.	6.6	153
61	Melt extrusion process for adjusting drug release of poorly water soluble drug felodipine using different polymer matrices. European Journal of Pharmaceutical Sciences, 2018, 114, 332-345.	1.9	23
62	Degassing of a pressurized liquid saturated with dissolved gas when injected to a low pressure liquid pool. Experimental Thermal and Fluid Science, 2018, 96, 347-357.	1.5	13
63	Analysis of specific energy consumption in reverse osmosis desalination processes. Desalination, 2018, 431, 15-21.	4.0	131
64	Cadmium, mercury, and nickel adsorption by tetravalent manganese feroxyhyte: selectivity, kinetic modeling, and thermodynamic study. Environmental Science and Pollution Research, 2018, 25, 12263-12273.	2.7	25
65	A new device for measuring the thermal conductivity of heterogeneous multicomponent thin samples: Development and application to polymer composites. International Journal of Heat and Mass Transfer, 2018, 116, 1064-1073.	2.5	3
66	Behavior of Ti-6Al-4 V surfaces after exposure to water disinfected with ionic silver. Applied Surface Science, 2018, 427, 763-770.	3.1	14
67	On the Effective Density and Fractalâ€"Like Dimension of Diesel Soot Aggregates as a Function of Mobility Diameter. Emission Control Science and Technology, 2018, 4, 240-246.	0.8	0
68	Preparation of New Risperidone Depot Microspheres Based on Novel Biocompatible Poly(Alkylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 107, 2891-2901.	1.6	13
69	Amphiphilic Block Copolymer Microspheres Derived from Castor Oil, Poly(Îµ-carpolactone), and Poly(ethylene glycol): Preparation, Characterization and Application in Naltrexone Drug Delivery. Materials, 2018, 11, 1996.	1.3	11
70	Nanostructured Composites of Sodium Montmorillonite Clay and PEO Used in Dissolution Improvement of Aprepitant Drug by Melt Mixing. Applied Sciences (Switzerland), 2018, 8, 786.	1.3	14
71	Fluid Dynamics and Mass Transfer in Spacer-Filled Membrane Channels: Effect of Uniform Channel-Gap Reduction Due to Fouling. Fluids, 2018, 3, 12.	0.8	11
72	Effect of initial droplet shape on the tangential force required for spreading and sliding along a solid surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 164-173.	2.3	27

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73	An Experimental and Theoretical Study on Separations by Vacuum Membrane Distillation Employing Hollow-Fiber Modules. Water (Switzerland), 2018, 10, 947.	1.2	20
74	Risperidone Controlled Release Microspheres Based on Poly(Lactic Acid)-Poly(Propylene Adipate) Novel Polymer Blends Appropriate for Long Acting Injectable Formulations. Pharmaceutics, 2018, 10, 130.	2.0	44
75	Image analysis of axisymmetric droplets in wetting experiments: A new tool for the study of 3D droplet geometry and droplet shape reconstruction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 660-671.	2.3	20
76	Personalized and Optimized Low-Dose and Intensive Chemotherapy Treatments for Patients with Acute Myeloid Leukemia (AML). Blood, 2018, 132, 3500-3500.	0.6	1
77	Use of mesoporous cellular foam (MCF) in preparation of polymeric microspheres for long acting injectable release formulations of paliperidone antipsychotic drug. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 117, 77-90.	2.0	33
78	Thermal analysis of pre-boiling regime in frying experiments at several sample orientations and gravity levels. Food and Bioproducts Processing, 2017, 102, 350-361.	1.8	4
79	PLGA/SBA-15 mesoporous silica composite microparticles loaded with paclitaxel for local chemotherapy. European Journal of Pharmaceutical Sciences, 2017, 99, 32-44.	1.9	32
80	Silver deposition on stainless steel container surfaces in contact with disinfectant silver aqueous solutions. Applied Surface Science, 2017, 396, 1067-1075.	3.1	12
81	Model Development and Experimental Data Analysis for Calcium Carbonate Membrane Scaling during Dead-End Filtration with Agitation. Industrial & Engineering Chemistry Research, 2017, 56, 603-613.	1.8	7
82	Effect of catalyst type on molecular weight increase and coloration of poly(ethylene furanoate) biobased polyester during melt polycondensation. Polymer Chemistry, 2017, 8, 6895-6908.	1.9	76
83	Desalination by Reverse Osmosis. Green Chemistry and Sustainable Technology, 2017, , 155-199.	0.4	2
84	On kinetic modelling for solar redox thermochemical H_2O and CO_2 splitting over $NiFe_2O_4$ for H_2, CO and syngas production. Physical Chemistry Chemical Physics, 2017, 19, 26776-26786.	1.3	7
85	Kerberos : A three camera headed centrifugal/tilting device for studying wetting/dewetting under the influence of controlled body forces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 521, 38-48.	2.3	15
86	An Integrated Experimental-Modelling Approach of Mesenchymal Stem Cell Bioprocess towards Osteogenic Differentiation. IFAC-PapersOnLine, 2017, 50, 9877-9882.	0.5	0
87	Thiolated Chitosan Masked Polymeric Microspheres with Incorporated Mesocellular Silica Foam (MCF) for Intranasal Delivery of Paliperidone. Polymers, 2017, 9, 617.	2.0	45
88	A Population Balance Model for Stem Cell Differentiation Bioprocesses. Computer Aided Chemical Engineering, 2017, , 2761-2766.	0.3	1
89	Dynamic operation of flat sheet desalination-membrane elements: A comprehensive model accounting for organic fouling. Computers and Chemical Engineering, 2016, 93, 1-12.	2.0	9
90	Analysis of bubble growth on a hot plate during decompression in microgravity. International Journal of Thermal Sciences, 2016, 106, 102-111.	2.6	2

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91	Adsorption of As(III) and As(V) onto colloidal microparticles of commercial cross-linked polyallylamine (Sevelamer) from single and binary ion solutions. Journal of Colloid and Interface Science, 2016, 474, 137-145.	5.0	20
92	A Theoretical Study of Steady State and Transient Condensation on Axisymmetric Fins Under Combined Capillary and Gravitational Forces. Microgravity Science and Technology, 2016, 28, 559-567.	0.7	5
93	Ozone Mass Transfer Studies in a Hydrophobized Ceramic Membrane Contactor: Experiments and Analysis. Industrial & Engineering Chemistry Research, 2016, 55, 7587-7597.	1.8	28
94	Incipient crystallization of calcium carbonate on desalination membranes: dead-end filtration with agitation. Desalination and Water Treatment, 2016, 57, 2855-2869.	1.0	8
95	Calcium carbonate scaling of desalination membranes: Assessment of scaling parameters from dead-end filtration experiments. Journal of Membrane Science, 2016, 510, 293-305.	4.1	32
96	A comprehensive mathematical analysis of a novel multistage population balance model for cell proliferation. Computers and Chemical Engineering, 2016, 91, 157-166.	2.0	2
97	Mathematical analysis of multistage population balances for cell growth and death. Computer Aided Chemical Engineering, 2015, 37, 2105-2110.	0.3	0
98	Novel Approaches in Designing Natural/Synthetic Materials for Environmental Applications. Advances in Materials Science and Engineering, 2015, 2015, 1-1.	1.0	2
99	Swelling–adsorption interactions during mercury and nickel ions removal by chitosan derivatives. Separation and Purification Technology, 2015, 149, 92-102.	3.9	52
100	Aspects of the Two-Layer Model for Direct Contact Condensation of Steam on Wavy Falling Films. Chemical Engineering Communications, 2015, 202, 1535-1546.	1.5	3
101	Impact of Combination of EGR, SCR, and DPF Technologies for the Low-Emission Rail Diesel Engines. Emission Control Science and Technology, 2015, 1, 213-225.	0.8	28
102	A mathematical model of subpopulation kinetics for the deconvolution of leukaemia heterogeneity. Journal of the Royal Society Interface, 2015, 12, 20150276.	1.5	17
103	Synthesis and characterization of modified carrageenan microparticles for the removal of pharmaceuticals from aqueous solutions. Colloids and Surfaces B: Biointerfaces, 2015, 127, 256-265.	2.5	41
104	Bubble–particle collision interaction in flotation systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 95-103.	2.3	55
105	Cell cycle model selection for leukemia and its impact in chemotherapy outcomes. Computer Aided Chemical Engineering, 2015, , 2159-2164.	0.3	2
106	Controlled release formulations of risperidone antipsychotic drug in novel aliphatic polyester carriers: Data analysis and modelling. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 473-484.	2.0	39
107	Cyclin and DNA Distributed Cell Cycle Model for GS-NS0 Cells. PLoS Computational Biology, 2015, 11, e1004062.	1.5	18
108	Membrane desalination under constant water recovery – The effect of module design parameters on system performance. Separation and Purification Technology, 2015, 147, 90-113.	3.9	27

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109	Decompression induced bubble dynamics on ex vivo fat and muscle tissue surfaces with a new experimental set up. Colloids and Surfaces B: Biointerfaces, 2015, 129, 121-129.	2.5	13
110	Foam free drainage and bubbles size for surfactant concentrations below the CMC. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 92-103.	2.3	41
111	Kinetic modeling of AS(III) and AS(V) adsorption by a novel tetravalent manganese feroxyhyte. Journal of Colloid and Interface Science, 2015, 460, 1-7.	5.0	11
112	Chitosan derivatives as effective nanocarriers for ocular release of timolol drug. International Journal of Pharmaceutics, 2015, 495, 249-264.	2.6	76
113	Selecting a Differential Equation Cell Cycle Model for Simulating Leukemia Treatment. Industrial & Engineering Chemistry Research, 2015, 54, 8847-8859.	1.8	11
114	Chemotherapy Optimization in Leukemia: Selecting the Right Mathematical Models for the Right Biological Processesâˆ—. IFAC-PapersOnLine, 2015, 48, 534-539.	0.5	2
115	A population balance treatment of bubble size evolution in free draining foams. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 75-84.	2.3	14
116	On the identification of liquid surface properties using liquid bridges. Advances in Colloid and Interface Science, 2015, 222, 436-445.	7.0	6
117	Modeling of spiral wound membrane desalination modules and plants â€" review and research priorities. Desalination, 2015, 356, 165-186.	4.0	65
118	Experimental Investigations on Condensation in the Framework of ENhanced COndensers in Microgravity (ENCOM-2) Project. Microgravity Science and Technology, 2014, 26, 335-349.	0.7	10
119	Green Adsorbents for Wastewaters: A Critical Review. Materials, 2014, 7, 333-364.	1.3	291
120	Improved kinetic model for water splitting thermochemical cycles using Nickel Ferrite. International Journal of Hydrogen Energy, 2014, 39, 6317-6327.	3.8	23
121	Effect of adding glycerol and Tween 80 on gas holdup and bubble size distribution in an aerated stirred tank. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 815-824.	2.3	17
122	Adsorption/desorption of a dye by a chitosan derivative: Experiments and phenomenological modeling. Chemical Engineering Journal, 2014, 248, 327-336.	6.6	75
123	The effect of spiral wound membrane element design characteristics on its performance in steady state desalination â€" A parametric study. Desalination, 2014, 332, 76-90.	4.0	37
124	Cobalt oxide based structured bodies as redox thermochemical heat storage medium for future CSP plants. Solar Energy, 2014, 108, 146-163.	2.9	95
125	Analysis of bubble-in-liquid bridge configuration as prototype for studying foam dynamics. Zero Bond number case. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 386-390.	2.3	1
126	A Cyclin Distributed Cell Cycle Model in GS-NS0. Computer Aided Chemical Engineering, 2014, 33, 19-24.	0.3	3

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127	Comprehensive simulation of flat-sheet membrane element performance in steady state desalination. Desalination, 2013, 316, 91-102.	4.0	41
128	N-(2-Carboxybenzyl) grafted chitosan as adsorptive agent for simultaneous removal of positively and negatively charged toxic metal ions. Journal of Hazardous Materials, 2013, 244-245, 29-38.	6.5	63
129	Modeling scale formation in flat-sheet membrane modules during water desalination. AICHE Journal, 2013, 59, 2917-2927.	1.8	16
130	Modelling Tomato Dehydration in a Tunnel Dryer Using Geothermal Energy. Drying Technology, 2013, 31, 5-16.	1.7	10
131	Developing a cyclin blueprint as a tool for mapping the cell cycle in GS-NS0. Biochemical Engineering Journal, 2013, 81, 97-107.	1.8	10
132	Unexpected natural convection heat transfer for small Rayleigh numbers in external geometry. International Journal of Heat and Mass Transfer, 2013, 64, 773-782.	2.5	5
133	Environmental friendly technology for the removal of pharmaceutical contaminants from wastewaters using modified chitosan adsorbents. Chemical Engineering Journal, 2013, 222, 248-258.	6.6	107
134	On the simultaneous adsorption of a reactive dye and hexavalent chromium from aqueous solutions onto grafted chitosan. Journal of Colloid and Interface Science, 2013, 407, 432-441.	5.0	59
135	Incipient calcium carbonate scaling of desalination membranes in narrow channels with spacers—experimental insights. Journal of Membrane Science, 2013, 425-426, 48-57.	4.1	35
136	Hydrogen production via solar-aided water splitting thermochemical cycles with nickel ferrite: Experiments and modeling. AICHE Journal, 2013, 59, 1213-1225.	1.8	67
137	Copper removal from aqueous systems with coffee wastes as low-cost materials. E3S Web of Conferences, 2013, 1, 25004.	0.2	7
138	Decolorization of Dyeing Wastewater Using Polymeric Absorbents - An Overview. , 2013, , .		10
139	Emission Reduction Technologies for the Future Low Emission Rail Diesel Engines: EGR vs SCR. , 2013, , .		15
140	Frictional and heat transfer characteristics of flow in square porous tubes of wall-flow monoliths. Chemical Engineering Science, 2012, 84, 255-265.	1.9	34
141	Incipient CaCO3 Scale Formation on Reverse Osmosis Membranes During Brackish Water Desalination in Spacer—Filled Channels. Procedia Engineering, 2012, 44, 1891-1893.	1.2	1
142	On the Effect of Flowing Circular Entities Swarms on Strip Electrodes Conductance. Industrial & Engineering Chemistry Research, 2012, 51, 5615-5625.	1.8	2
143	Improved Transfer Coefficients for Wall-Flow Monolithic Catalytic Reactors: Energy and Momentum Transport. Industrial & Engineering Chemistry Research, 2012, 51, 13062-13072.	1.8	22
144	Aspects of multifunctional diesel particulate filters and their efficient simulation. Catalysis Today, 2012, 188, 2-13.	2.2	47

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145	Modelling the effect of pre-swelling on adsorption dynamics of dyes by chitosan derivatives. Chemical Engineering Science, 2012, 81, 220-230.	1.9	37
146	On the capacity of a crustâ€"core model to describe potato deep-fat frying. Food Research International, 2012, 46, 185-193.	2.9	15
147	Surface water evaporation and energy components analysis during potato deep fat frying. Food Research International, 2012, 48, 307-315.	2.9	17
148	Effect of seeding on hydrogen and carbon particle production in a 10ÂMW solar thermal reactor for methane decomposition. International Journal of Hydrogen Energy, 2012, 37, 16570-16580.	3.8	11
149	The Micromechanics of Catalytic Soot Oxidation in Diesel Particulate Filters. , 2012, , .		5
150	Twoâ€dimensional model of methane thermal decomposition reactors with radiative heat transfer and carbon particle growth. AICHE Journal, 2012, 58, 2545-2556.	1.8	13
151	A mathematical study of the evolution of fouling and operating parameters throughout membrane sheets comprising spiral wound modules. Chemical Engineering Journal, 2012, 187, 222-231.	6.6	25
152	Hydrogen production via solar-aided water splitting thermochemical cycles: Combustion synthesis and preliminary evaluation of spinel redox-pair materials. International Journal of Hydrogen Energy, 2012, 37, 8964-8980.	3.8	85
153	Mathematical Analysis of the Meso-Scale Flow Field in Spiral-Wound Membrane Modules. Industrial & Engineering Chemistry Research, 2011, 50, 4653-4666.	1.8	22
154	The equimaterial approach for the numerical solution of the one dimensional transient diffusion equation with zero flux boundary conditions. Applied Mathematics and Computation, 2011, 218, 1353-1359.	1.4	0
155	Kinetic Analysis of Nanocomposites Prepared in situ Consisting of an Aliphatic Biodegradable Polyester and Fumed Silica Nanoparticles. Macromolecular Reaction Engineering, 2011, 5, 178-189.	0.9	9
156	On modeling incipient crystallization of sparingly soluble salts in frontal membrane filtration. Journal of Colloid and Interface Science, 2011, 362, 202-214.	5.0	16
157	Effect of Liquid Properties on Heat Transfer from Miniature Heaters at Different Gravity Conditions. Microgravity Science and Technology, 2011, 23, 123-128.	0.7	5
158	On population balance modeling of membrane bioreactor operation with periodic backâ€washing. AICHE Journal, 2011, 57, 2274-2281.	1.8	4
159	Treatment of real effluents from dyeing reactor: Experimental and modeling approach by adsorption onto chitosan. Chemical Engineering Journal, 2011, 168, 577-585.	6.6	77
160	A new device for assessing film stability in foams: Experiment and theory. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 382, 64-73.	2.3	12
161	On mathematical modeling of solar hydrogen production in monolithic reactors. Computers and Chemical Engineering, 2011, 35, 1915-1922.	2.0	7
162	Incipient crystallization of sparingly soluble salts on membrane surfaces: The case of dead-end filtration with no agitation. Desalination, 2011, 273, 105-117.	4.0	30

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163	Heat transfer from small objects in microgravity: Experiments and analysis. International Journal of Heat and Mass Transfer, 2011, 54, 3323-3333.	2.5	8
164	One-dimensional model of solar thermal reactors for the co-production of hydrogen and carbon black from methane decomposition. International Journal of Hydrogen Energy, 2011, 36, 189-202.	3.8	17
165	Three-moments conserving sectional techniques for the solution of coagulation and breakage population balances. Computer Aided Chemical Engineering, 2011, 29, 41-45.	0.3	1
166	Large wave characteristics and their downstream evolution at high Reynolds number falling films. AICHE Journal, 2010, 56, 11-23.	1.8	1
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