

Mohammad Barzegar-Jalali

List of Publications by Year in descending order

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117
papers

4,887
citations

136950

32
h-index

98798

67
g-index

117
all docs

117
docs citations

117
times ranked

6432
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial activity of the metals and metal oxide nanoparticles. <i>Materials Science and Engineering C</i> , 2014, 44, 278-284.	7.3	1,231
2	Kinetic Analysis of Drug Release From Nanoparticles. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2008, 11, 167.	2.1	246
3	Calcium carbonate nanoparticles as cancer drug delivery system. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 1649-1660.	5.0	216
4	Biopharmaceutical classification of drugs using intrinsic dissolution rate (IDR) and rat intestinal permeability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 73, 102-106.	4.3	123
5	Development of azithromycin PLGA nanoparticles: Physicochemical characterization and antibacterial effect against <i>Salmonella typhi</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 80, 34-39.	5.0	123
6	Piroxicam nanoparticles for ocular delivery: Physicochemical characterization and implementation in endotoxin-induced uveitis. <i>Journal of Drug Targeting</i> , 2007, 15, 407-416.	4.4	120
7	Predicting human intestinal permeability using single-pass intestinal perfusion in rat. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2007, 10, 368-79.	2.1	118
8	The effect of type and concentration of vehicles on the dissolution rate of a poorly soluble drug (indomethacin) from liquisolid compacts. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2005, 8, 18-25.	2.1	108
9	Polyester based polymeric nano and microparticles for pharmaceutical purposes: A review on formulation approaches. <i>Journal of Controlled Release</i> , 2020, 320, 265-282.	9.9	105
10	Physicochemical and anti-bacterial performance characterization of clarithromycin nanoparticles as colloidal drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 39-44.	5.0	104
11	Development of a nanoprecipitation method for the entrapment of a very water soluble drug into Eudragit RL nanoparticles. <i>Research in Pharmaceutical Sciences</i> , 2017, 12, 1.	1.8	101
12	Solubility of Chlordiazepoxide, Diazepam, and Lorazepam in Ethanol + Water Mixtures at 303.2 K. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2142-2145.	1.9	94
13	Inhibition of Endotoxin-Induced Uveitis by Methylprednisolone Acetate Nanosuspension in Rabbits. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2007, 23, 421-432.	1.4	87
14	Cogrounding as an approach to enhance dissolution rate of a poorly water-soluble drug (gliclazide). <i>Powder Technology</i> , 2010, 197, 150-158.	4.2	86
15	Simultaneous determination of naproxen, ketoprofen and phenol red in samples from rat intestinal permeability studies: HPLC method development and validation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 39, 624-630.	2.8	85
16	Hydrogel nanoparticles and nanocomposites for nasal drug/vaccine delivery. <i>Archives of Pharmacal Research</i> , 2016, 39, 1181-1192.	6.3	78
17	Recent advances in improving oral drug bioavailability by cocrystals. <i>BiolImpacts</i> , 2018, 8, 305-320.	1.5	77
18	Solubility of naproxen in 2-propanol+water mixtures at various temperatures. <i>Journal of Molecular Liquids</i> , 2015, 206, 110-113.	4.9	75

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19	Preparation of agglomerated crystals for improving flowability and compactibility of poorly flowable and compactible drugs and excipients. Powder Technology, 2007, 175, 73-81.	4.2	74
20	Comparison of physicochemical characteristics and drug release of diclofenac sodium eudragit® RS100 nanoparticles and solid dispersions. Powder Technology, 2012, 219, 211-216.	4.2	69
21	Preparation and Characterization of Solid Dispersions of Piroxicam with Hydrophilic Carriers. Drug Development and Industrial Pharmacy, 2007, 33, 45-56.	2.0	67
22	Ciprofloxacin HCl-loaded calcium carbonate nanoparticles: preparation, solid state characterization, and evaluation of antimicrobial effect against <i>Staphylococcus aureus</i> . Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 535-543.	2.8	59
23	QSPR models for the prediction of apparent volume of distribution. International Journal of Pharmaceutics, 2006, 319, 82-97.	5.2	57
24	Silver nanoparticles induce the cardiomyogenic differentiation of bone marrow derived mesenchymal stem cells via telomere length extension. Beilstein Journal of Nanotechnology, 2021, 12, 786-797.	2.8	43
25	Physicochemical characterization and antimicrobial evaluation of gentamicin-loaded CaCO ₃ nanoparticles prepared via microemulsion method. Journal of Drug Delivery Science and Technology, 2016, 35, 16-23.	3.0	42
26	Graphene-based multifunctional nanosystems for simultaneous detection and treatment of breast cancer. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111104.	5.0	42
27	Physicochemical characterization of naproxen solid dispersions prepared via spray drying technology. Powder Technology, 2013, 246, 448-455.	4.2	40
28	Pharmacological and histological examination of atorvastatin-PVP K30 solid dispersions. Powder Technology, 2015, 286, 538-545.	4.2	40
29	Box-Behnken experimental design for preparation and optimization of ciprofloxacin hydrochloride-loaded CaCO ₃ nanoparticles. Journal of Drug Delivery Science and Technology, 2015, 29, 125-131.	3.0	39
30	Methylprednisolone acetate-loaded hydroxyapatite nanoparticles as a potential drug delivery system for treatment of rheumatoid arthritis: In vitro and in vivo evaluations. European Journal of Pharmaceutical Sciences, 2016, 91, 225-235.	4.0	39
31	Reciprocal Powered Time model for Release Kinetic Analysis of Ibuprofen Solid Dispersions in Oleaster Powder, Microcrystalline Cellulose and Crospovidone. Journal of Pharmacy and Pharmaceutical Sciences, 2010, 13, 152.	2.1	36
32	Solubility of Benzodiazepines in Polyethylene Glycol 200 + Water Mixtures at 303.2 K. Journal of Chemical & Engineering Data, 2010, 55, 519-522.	1.9	34
33	Design and evaluation of 1- and 3-layer matrices of verapamil hydrochloride for sustaining its release. AAPS PharmSciTech, 2005, 6, E626-E632.	3.3	32
34	Evaluation of physicochemical properties and in vivo efficiency of atorvastatin calcium/ezetimibe solid dispersions. European Journal of Pharmaceutical Sciences, 2016, 82, 21-30.	4.0	32
35	Formulation and Evaluation of Eudragit RL-100 Nanoparticles Loaded In-Situ Forming Gel for Intranasal Delivery of Rivastigmine. Advanced Pharmaceutical Bulletin, 2020, 10, 20-29.	1.4	31
36	Application of Box-Behnken design to prepare gentamicin-loaded calcium carbonate nanoparticles. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 1475-1481.	2.8	30

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37	Measurement and correlation of clotrimazole solubility in ethanol + water mixtures at T = (293.2 to) Tj ETQq1 1 0.784314 rgBT /Over	4.9	30
38	Quantitative structure-pharmacokinetic relationship modelling: apparent volume of distribution. Journal of Pharmacy and Pharmacology, 2010, 56, 339-350.	2.4	28
39	Kinetic Analysis of Chlorpropamide Dissolution from Solid Dispersions. Drug Development and Industrial Pharmacy, 2007, 33, 63-70.	2.0	27
40	Evaluation of drug release kinetics and physico-chemical characteristics of metronidazole floating beads based on calcium silicate and gas-forming agents. Pharmaceutical Development and Technology, 2010, 15, 329-338.	2.4	27
41	Solubility and thermodynamics of lamotrigine in carbitol+water mixtures from <i>T</i>= (293.2 to) Tj ETQq1 1 0.784314 rgBT /Over	2.6	25
42	Recent advances in breast cancer immunotherapy: The promising impact of nanomedicines. Life Sciences, 2021, 271, 119110.	4.3	25
43	Solubilization of bosentan using ethanol as a pharmaceutical cosolvent. Journal of Molecular Liquids, 2017, 232, 152-158.	4.9	24
44	Density, Speed of Sound, and Viscosity of Diethylene Glycol Monoethyl Ether + <i>N</i>-Dimethylformamide (Ethanol, Water) at <i>T</i> = 288.15-318.15 K. Journal of Chemical & Engineering Data, 2019, 64, 1425-1436.	1.9	24
45	Mesalazine solubility in the binary mixtures of ethanol and water at various temperatures. Physics and Chemistry of Liquids, 2021, 59, 12-25.	1.2	24
46	Effect of solvent type on retardation properties of diltiazem HCl form liquisolid tablets. Colloids and Surfaces B: Biointerfaces, 2014, 113, 10-14.	5.0	23
47	Methylprednisolone acetate-Eudragit®RS100 electrospuns: Preparation and physicochemical characterization. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 497-503.	2.8	23
48	Solubility of bosentan in {propylene glycol + water} mixtures at various temperatures: experimental data and mathematical modelling. Physics and Chemistry of Liquids, 2019, 57, 338-348.	1.2	22
49	Characterizing eutectic mixtures of gliclazide with succinic acid prepared by electrospray deposition and liquid assisted grinding methods. Journal of Drug Delivery Science and Technology, 2018, 45, 101-109.	3.0	21
50	Experimental Solubility and Density Functional Theory Studies of Deferasirox in Binary Solvent Mixtures: Performance of Polarizable Continuum Model and Jouyban-Acree Model. Journal of Chemical & Engineering Data, 2019, 64, 2273-2279.	1.9	20
51	Physicochemical characterization of atorvastatin calcium/ezetimibe amorphous nano-solid dispersions prepared by electrospraying method. Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 1138-1145.	2.8	19
52	An Alternative Approach for Improved Entrapment Efficiency of Hydrophilic Drug Substance in PLGA Nanoparticles by Interfacial Polymer Deposition Following Solvent Displacement. Jundishapur Journal of Natural Pharmaceutical Products, 2018, 13, .	0.6	19
53	Development of amitriptyline buccoadhesive tablets for management of pain in dental procedures. Drug Development and Industrial Pharmacy, 2011, 37, 849-854.	2.0	18
54	Physicochemical characterization and pharmacological evaluation of ezetimibe-PVP K30 solid dispersions in hyperlipidemic rats. Colloids and Surfaces B: Biointerfaces, 2015, 134, 423-430.	5.0	18

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55	Comparison of Different Nanosuspensions as Potential Ophthalmic Delivery Systems for Ketotifen Fumarate. <i>Advanced Pharmaceutical Bulletin</i> , 2016, 6, 345-352.	1.4	18
56	Feasibility of electrospray deposition for rapid screening of the cocrystal formation and single step, continuous production of pharmaceutical nanococrystals. <i>Drug Development and Industrial Pharmacy</i> , 2018, 44, 1034-1047.	2.0	17
57	Piroxicam cocrystals with phenolic coformers: preparation, characterization, and dissolution properties. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 199-210.	2.4	17
58	A quantitative approach to predicting lung deposition profiles of pharmaceutical powder aerosols. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120568.	5.2	16
59	Enhancing dissolution, serum concentrations and hypoglycemic effect of glibenclamide using solvent deposition technique. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2005, 8, 175-81.	2.1	16
60	Evaluation of in vitro-in vivo correlation and anticonvulsive effect of carbamazepine after cogrinding with microcrystalline cellulose. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2006, 9, 307-16.	2.1	16
61	Co-electrospraying technology as a novel approach for dry powder inhalation formulation of montelukast and budesonide for pulmonary co-delivery. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119970.	5.2	15
62	Physicochemical characterization and in vivo evaluation of triamcinolone acetonide-loaded hydroxyapatite nanocomposites for treatment of rheumatoid arthritis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 223-232.	5.0	14
63	Morphological and physicochemical evaluation of the propranolol HCl@Eudragit® RS100 electrosprayed nanoformulations. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 749-756.	2.8	14
64	Solubility of ketoconazole in the binary mixtures of 2-propanol and water at different temperatures. <i>Journal of Molecular Liquids</i> , 2020, 300, 112259.	4.9	14
65	Osteogenesis Promotion of Selenium-Doped Hydroxyapatite for Application as Bone Scaffold. <i>Biological Trace Element Research</i> , 2021, 199, 1802-1811.	3.5	14
66	Stimuli-responsive graphene oxide and methotrexate-loaded magnetic nanoparticles for breast cancer-targeted therapy. <i>Nanomedicine</i> , 2021, 16, 2155-2174.	3.3	14
67	Development and characterization of solid dispersion of piroxicam for improvement of dissolution rate using hydrophilic carriers. <i>BioImpacts</i> , 2014, 4, 141-148.	1.5	13
68	Solubilization of naproxen: Experimental data and computational tools. <i>Journal of Molecular Liquids</i> , 2019, 288, 110985.	4.9	13
69	Inclusion of piroxicam in mesoporous phosphate glass@ceramic and evaluation of the physicochemical characteristics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 751-756.	5.0	12
70	Solubility of sildenafil citrate in polyethylene glycol 400 + water mixtures at various temperatures. <i>Journal of Molecular Liquids</i> , 2017, 240, 268-272.	4.9	11
71	Solubility of mesalazine in {acetonitrile+water} mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 2021, 59, 690-705.	1.2	11
72	Folate Receptor-mediated delivery of 1-MDT-loaded mesoporous silica magnetic nanoparticles to target breast cancer cells. <i>Nanomedicine</i> , 2021, 16, 2137-2154.	3.3	11

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73	Design of eudragit RL nanoparticles by nanoemulsion method as carriers for ophthalmic drug delivery of ketotifen fumarate. Iranian Journal of Basic Medical Sciences, 2016, 19, 550-60.	1.0	11
74	Liquigroud technique: a new concept for enhancing dissolution rate of glibenclamide by combination of liquisolid and co-grinding technologies. BioImpacts, 2017, 7, 5-12.	1.5	10
75	Solubility of sildenafil citrate in the binary mixtures of ethylene glycol and water at different temperatures. Journal of Molecular Liquids, 2020, 299, 112127.	4.9	10
76	Solubility of celecoxib in carbitol + water mixtures at various temperatures: experimental data and mathematical modelling. Physics and Chemistry of Liquids, 2019, 57, 755-767.	1.2	9
77	Studies on dissolution enhancement of prednisolone, a poorly water-soluble drug by solid dispersion technique. Advanced Pharmaceutical Bulletin, 2011, 1, 48-53.	1.4	9
78	Fabrication and Evaluation of Ketotifen Fumarate-loaded PLGA Nanoparticles as a Sustained Delivery System. Iranian Journal of Pharmaceutical Research, 2017, 16, 22-34.	0.5	9
79	Solubility of 7-Chloro-2-methylamino-5-phenyl-3H-1,4-benzodiazepine-4-oxide, 7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one, and 7-Chloro-5-(2-chlorophenyl)-3-hydroxy-1,3-dihydro-1,4-benzodiazepin-2-one in (Propane-1,2-diol + Water) at a Temperature of 303.2 K. Journal of Chemical & Engineering Data, 2010, 55, 539-542.	1.9	8
80	Solubility of naproxen in some aqueous mixtures of N-methyl-2-pyrrolidone at various temperatures. Journal of Molecular Liquids, 2016, 220, 484-488.	4.9	8
81	Comparison of the Models for Correlation of Drug Solubility in Ethanol+Water Binary Mixtures. Journal of Solution Chemistry, 2019, 48, 1079-1104.	1.2	8
82	Development and characterization of solid dispersion for dissolution improvement of furosemide by cogrinding method. Advanced Pharmaceutical Bulletin, 2014, 4, 391-9.	1.4	8
83	Theoretical modeling of oral absorption of barbiturates. Il Farmaco, 2002, 57, 565-567.	0.9	7
84	Propranolol Hydrochloride Osmotic Capsule with Controlled Onset of Release. Drug Delivery, 2007, 14, 461-468.	5.7	7
85	Thermodynamic approaches for the prediction of oral drug absorption. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1371-1382.	3.6	7
86	Electrosprayed Nanosystems of Carbamazepine - PVP K30 for Enhancing Its Pharmacologic Effects. Iranian Journal of Pharmaceutical Research, 2018, 17, 1431-1443.	0.5	7
87	Experimental determination and correlation of naproxen solubility in biodegradable low-toxic betaine-based deep eutectic solvents and water mixtures at 293.15 K to 313.15 K. Fluid Phase Equilibria, 2022, 560, 113508.	2.5	7
88	Deferiprone solubility in some non-aqueous mono-solvents at different temperatures: experimental data and thermodynamic modelling. Physics and Chemistry of Liquids, 2018, 56, 619-626.	1.2	6
89	Volumetric and acoustic properties of ionic liquid, 1-hexyl-3-methylimidazolium bromide in 1-hexanol, 1-heptanol and 1-octanol at $T = (298.15\text{--}328.15)$ K. Physics and Chemistry of Liquids, 2020, 58, 545-558.	1.2	6
90	Comprehensive models for density prediction of ionic liquid + molecular solvent mixtures at different temperatures. Physics and Chemistry of Liquids, 2020, 58, 309-324.	1.2	6

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91	A New Solution for a Chronic Problem; Aqueous Enteric Coating. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2432-2437.	3.3	5
92	Solubility of sildenafil citrate in propylene glycol + water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 2018, 56, 508-517.	1.2	5
93	Experimental determination and correlation of bosentan solubility in (PEG 200 + water) mixtures at T= (293.15–313.15) K. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 504-515.	1.2	5
94	Solubility of celecoxib in 1-propanol + water mixtures at $T = (293.2\text{--}313.2)$ K: experimental data and thermodynamic analysis. <i>Physics and Chemistry of Liquids</i> , 2020, 58, 175-183.	1.2	5
95	Solubility of lamotrigine in acetonitrile + water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 2020, 58, 769-781.	1.2	5
96	Measurement and modelling of the solubility for ketoconazole in {acetonitrile+water} mixtures at T = (293.2 to 313.2) K. <i>Physics and Chemistry of Liquids</i> , 2021, 59, 331-344.	1.2	5
97	Nanomaterials and Stem Cell Differentiation Potential: An Overview of Biological Aspects and Biomedical Efficacy. <i>Current Medicinal Chemistry</i> , 2022, 29, 1804-1823.	2.4	5
98	Targeted combined therapy in 2D and 3D cultured MCF-7 cells using metformin and erlotinib-loaded mesoporous silica magnetic nanoparticles. <i>Journal of Microencapsulation</i> , 2021, 38, 472-485.	2.8	5
99	Electrosprayed polymeric nanobeads and nanofibers of modafinil: preparation, characterization, and drug release studies. <i>BioImpacts</i> , 2019, 9, 179-188.	1.5	5
100	Solubility of codeine phosphate in carbitol + 2-propanol mixture at different temperatures. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 910-915.	2.0	4
101	Application of Multivariate Calibration Methods, in Dissolution Testing and Simultaneous Determination of Atorvastatin and Ezetimibe in Their Combined Solid Dosage Form. <i>Pharmaceutical Sciences</i> , 2016, 22, 105-111.	0.8	4
102	Comparison of the Analgesic Effect of Diclofenac Sodium-Eudragit(®) RS100 Solid Dispersion and Nanoparticles Using Formalin Test in the Rats. <i>Advanced Pharmaceutical Bulletin</i> , 2015, 5, 77-81.	1.4	4
103	Relationship between potency and boiling point of general anesthetics: a thermodynamic consideration. <i>International Journal of Pharmaceutics</i> , 2000, 202, 41-45.	5.2	3
104	Combination of the Double Log–Log Model with Abraham Solvation Parameters to Predict Solubility of Drugs in Ethanol+Water Mixtures. <i>Journal of Solution Chemistry</i> , 2016, 45, 1425-1433.	1.2	3
105	Determination and mathematical modelling of budesonide solubility in N-methyl-2-pyrrolidone + water mixtures from T = 293.2 to 313.2 K. <i>Physics and Chemistry of Liquids</i> , 2018, 56, 834-842.	1.2	3
106	Lamotrigine solubility in 1-propanol + water mixtures at different temperatures: experimental data and mathematical modelling. <i>Physics and Chemistry of Liquids</i> , 2020, 58, 432-445.	1.2	3
107	Trained models for solubility prediction of drugs in acetonitrile+water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 2021, 59, 169-180.	1.2	3
108	Crystal-liquid Fugacity Ratio as a Surrogate Parameter for Intestinal Permeability. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2016, 19, 312.	2.1	2

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109	The solubility of bosentan in aqueous-2-propanol mixtures at several temperatures, measurement and data correlation. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 578-586.	1.2	2
110	Measurement and modelling of solubility data for bosentan in 1-propanol + water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 640-649.	1.2	2
111	Novel Gliclazide Electrospayed Nano-Solid Dispersions: Physicochemical Characterization and Dissolution Evaluation. <i>Advanced Pharmaceutical Bulletin</i> , 2019, 9, 231-240.	1.4	2
112	Physicochemical and pharmacological evaluation of carvedilol-eudragit RS100 electrospayed nanostructures. <i>Iranian Journal of Basic Medical Sciences</i> , 2019, 22, 547-556.	1.0	2
113	Thermodynamic study of the aqueous pseudo-binary mixtures of betaine-based deep eutectic solvents at $T = (293.15 \text{ to } 313.15) \text{ K}$. <i>Physics and Chemistry of Liquids</i> , 2022, 60, 651-666.	1.2	2
114	Determination and correlation of naproxen solubility in polyethylene glycol dimethyl ether 250 and water mixtures. <i>Physics and Chemistry of Liquids</i> , 2022, 60, 856-870.	1.2	2
115	Formulation of Pioglitazone-Eudragit® RS100 Nanobeads and Nanofibers Using Electrospaying Technique. <i>Polymer Science - Series A</i> , 2019, 61, 407-416.	1.0	1
116	Green and chemical reduction approaches for facile pH-dependent synthesis of gold nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> , 2022, 52, 1396-1404.	1.6	1
117	Further computations on the solubility of 2-methyl-1,3-benzothiazol-5-amine in ethanol + water mixtures at several temperatures. <i>Physics and Chemistry of Liquids</i> , 2020, 58, 421-431.	1.2	0