

Mostafa Keshavarz Moraveji

List of Publications by Year in descending order

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119
papers

3,737
citations

136940

32
h-index

149686

56
g-index

121
all docs

121
docs citations

121
times ranked

3913
citing authors

#	ARTICLE	IF	CITATIONS
1	PLGA-Based Nanoparticles in Cancer Treatment. <i>Frontiers in Pharmacology</i> , 2018, 9, 1260.	3.5	372
2	A review on bio-fuel production from microalgal biomass by using pyrolysis method. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3046-3059.	16.4	172
3	Electrical conductivity, viscosity, and density of different nanofluids: An experimental study. <i>Experimental Thermal and Fluid Science</i> , 2016, 74, 339-346.	2.7	169
4	CFD modeling (comparing single and two-phase approaches) on thermal performance of Al ₂ O ₃ /water nanofluid in mini-channel heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2013, 44, 157-164.	5.6	154
5	Droplet microfluidics: fundamentals and its advanced applications. <i>RSC Advances</i> , 2020, 10, 27560-27574.	3.6	144
6	Modeling of convective heat transfer of a nanofluid in the developing region of tube flow with computational fluid dynamics. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1291-1295.	5.6	120
7	Experimental investigation on heat transfer characteristics and pressure drop of BPHE (brazed plate) Tj ETQq1 1 0.784314 rgBT /Overbo	2.7	114
8	Characteristics and kinetics study of simultaneous pyrolysis of microalgae <i>Chlorella vulgaris</i> , wood and polypropylene through TGA. <i>Bioresource Technology</i> , 2017, 243, 481-491.	9.6	114
9	Comparative study of Euler and mixture models for turbulent flow of Al ₂ O ₃ nanofluid inside a horizontal tube. <i>International Communications in Heat and Mass Transfer</i> , 2014, 52, 152-158.	5.6	98
10	Microfluidic assisted synthesis of PLGA drug delivery systems. <i>RSC Advances</i> , 2019, 9, 2055-2072.	3.6	87
11	Experimental investigation of aluminum oxide nanofluid on heat pipe thermal performance. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1444-1448.	5.6	85
12	Comparison between single-phase and two-phases CFD modeling of laminar forced convection flow of nanofluids in a circular tube under constant heat flux. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1297-1302.	5.6	76
13	Drilling rate of penetration prediction and optimization using response surface methodology and bat algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 829-841.	4.4	75
14	Core-shell nanoparticles used in drug delivery-microfluidics: a review. <i>RSC Advances</i> , 2020, 10, 18280-18295.	3.6	65
15	Experimental and field test analysis of different loss control materials for combating lost circulation in bentonite mud. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 44, 1-8.	4.4	63
16	A Comparative Analysis of Single and Two-Phase Models of Turbulent Convective Heat Transfer in a Tube for TiO ₂ Nanofluid with CFD. <i>Numerical Heat Transfer; Part A: Applications</i> , 2013, 63, 795-806.	2.1	61
17	On evaluation of thermophysical properties of transformer oil-based nanofluids: A comprehensive modeling and experimental study. <i>Journal of Molecular Liquids</i> , 2020, 300, 112249.	4.9	61
18	CFD investigation of nanofluid effects (cooling performance and pressure drop) in mini-channel heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2013, 40, 58-66.	5.6	58

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19	An experimental investigation on the use of saponin as a non-ionic surfactant for chemical enhanced oil recovery (EOR) in sandstone and carbonate oil reservoirs: IFT, wettability alteration, and oil recovery. <i>Chemical Engineering Research and Design</i> , 2020, 160, 417-425.	5.6	54
20	Thermal behavior, thermodynamics and kinetics of co-pyrolysis of binary and ternary mixtures of biomass through thermogravimetric analysis. <i>Fuel</i> , 2020, 280, 118665.	6.4	53
21	On the pyrolysis of different microalgae species in a conical spouted bed reactor: Bio-fuel yields and characterization. <i>Bioresource Technology</i> , 2020, 311, 123561.	9.6	52
22	Modeling of forced convective heat transfer of a non-Newtonian nanofluid in the horizontal tube under constant heat flux with computational fluid dynamics. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 995-999.	5.6	49
23	Modeling of turbulent forced convective heat transfer and friction factor in a tube for Fe ₃ O ₄ magnetic nanofluid with computational fluid dynamics. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1293-1296.	5.6	47
24	An experimental evaluation on thermophysical properties of functionalized graphene nanoplatelets ionanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 31-40.	5.6	43
25	Experimental and numerical analysis of rheological characterization of hybrid nano-lubricants containing COOH-Functionalized MWCNTs and oxide nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2019, 101, 103-115.	5.6	42
26	A review on the design and development of photocatalyst synthesis and application in microfluidic reactors: challenges and opportunities. <i>Reviews in Chemical Engineering</i> , 2020, 36, 687-722.	4.4	38
27	Gas-liquid Hydrodynamics and Mass Transfer in Aqueous Alcohol Solutions in a Split-cylinder Airlift Reactor. <i>Chemical Engineering and Technology</i> , 2011, 34, 465-474.	1.5	36
28	Effect of CuO nanoparticle on dissolution of methane in water. <i>Journal of Molecular Liquids</i> , 2013, 180, 45-50.	4.9	36
29	Experimental investigation and CFD modeling of the dynamics of bubbles in nanofluid pool boiling. <i>International Communications in Heat and Mass Transfer</i> , 2014, 58, 12-24.	5.6	35
30	Co-pyrolysis of binary and ternary mixtures of microalgae, wood and waste tires through TGA. <i>Renewable Energy</i> , 2019, 142, 264-271.	8.9	35
31	CFD simulation of gas-liquid flow behaviour in an air-lift reactor: determination of the optimum distance of the draft tube. <i>Simulation Modelling Practice and Theory</i> , 2010, 18, 927-945.	3.8	34
32	Natural convection in a rectangular enclosure containing an oval-shaped heat source and filled with Fe ₃ O ₄ /water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2013, 44, 135-146.	5.6	34
33	Effect of three representative surfactants on methane hydrate formation rate and induction time. <i>Egyptian Journal of Petroleum</i> , 2017, 26, 331-339.	2.6	33
34	Numerical evaluation on thermal-hydraulic characteristics of dilute heat-dissipating nanofluids flow in microchannels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 671-683.	3.6	33
35	Microfluidics for core-shell drug carrier particles – a review. <i>RSC Advances</i> , 2021, 11, 229-249.	3.6	33
36	Effects of surfactants on hydrodynamics and mass transfer in a split-cylinder airlift reactor. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 93-99.	1.7	32

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37	Investigation of drill pipe rotation effect on cutting transport with aerated mud using CFD approach. <i>Advanced Powder Technology</i> , 2017, 28, 1141-1153.	4.1	29
38	Implementation of soft computing approaches for prediction of physicochemical properties of ionic liquid mixtures. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 425-439.	2.7	28
39	Mechanistic assessment of Seidlitzia Rosmarinus-derived surfactant for restraining shale hydration: A comprehensive experimental investigation. <i>Chemical Engineering Research and Design</i> , 2019, 147, 570-578.	5.6	28
40	Application of amorphous silica nanoparticles in improving the rheological properties, filtration and shale stability of glycol-based drilling fluids. <i>International Communications in Heat and Mass Transfer</i> , 2020, 115, 104625.	5.6	27
41	Comparative Numerical Study of Nanofluid Heat Transfer through an Annular Channel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 100-117.	2.1	26
42	On the evaluation of thermal conductivity of ionic liquids: Modeling and data assessment. <i>Journal of Molecular Liquids</i> , 2016, 224, 648-656.	4.9	26
43	CFD Examination of Convective Heat Transfer and Pressure Drop in a Horizontal Helically Coiled Tube with CuO/Oil Base Nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 315-329.	2.1	24
44	Application of CFD for designing conventional three phase oilfield separator. <i>Egyptian Journal of Petroleum</i> , 2017, 26, 413-420.	2.6	24
45	Bridging performance of new eco-friendly lost circulation materials. <i>Petroleum Exploration and Development</i> , 2018, 45, 1154-1165.	7.0	24
46	Synthesis, characterization and absorbability of Crocus sativus petals hydrothermal carbonized hydrochar and activated hydrochar. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 159, 108236.	3.6	24
47	Comparative Numerical Investigation on TiO ₂ /Water Nanofluid Turbulent Flow by Implementation of Single Phase and Two Phase Approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 330-348.	2.1	23
48	Simultaneous pyrolysis of microalgae <i>C. vulgaris</i> , wood and polymer: The effect of third component addition. <i>Bioresource Technology</i> , 2018, 247, 66-72.	9.6	22
49	Performance of ceria/iron oxide nano-composites based on chitosan as an effective adsorbent for removal of Cr(VI) and Co(II) ions from aqueous systems. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27059-27073.	5.3	22
50	Three-dimensional simulation of turbulent flow in a membrane tube filled with semi-circular baffles. <i>Desalination</i> , 2012, 294, 8-16.	8.2	21
51	Integral technique for evaluation and optimization of Ni (II) ions adsorption onto regenerated cellulose using response surface methodology. <i>Arabian Journal of Chemistry</i> , 2018, 11, 370-379.	4.9	21
52	Experimental investigation and CFD simulation of turbulence effect on hydrodynamic and mass transfer in a packed bed airlift internal loop reactor. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 518-524.	5.6	19
53	Computational fluid dynamics to analyze the effects of initial wetting film and triple contact line on the efficiency of immiscible two-phase flow in a pore doublet model. <i>Journal of Molecular Liquids</i> , 2019, 273, 248-258.	4.9	19
54	Generalized models for predicting the critical properties of pure chemical compounds. <i>Journal of Molecular Liquids</i> , 2017, 240, 777-793.	4.9	18

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55	Investigation of effective processes parameters on lead (II) adsorption from wastewater by biochar in mild air oxidation pyrolysis process. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 3975-3995.	3.3	18
56	An insight into the role of riboflavin ligand in the self-assembly of poly(lactic-co-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 5250-5260.	2.7	17
57	Optimized production, Pb(II) adsorption and characterization of alkali modified hydrochar from sugarcane bagasse. <i>Scientific Reports</i> , 2021, 11, 22328.	3.3	17
58	Free convection of water-Fe ₃ O ₄ nanofluid in an inclined cavity subjected to a magnetic field: CFD modeling, sensitivity analysis. <i>Advanced Powder Technology</i> , 2017, 28, 1573-1584.	4.1	16
59	CFD simulation of heat and mass transport for water transfer through hydrophilic membrane in direct-contact membrane distillation process. <i>Desalination and Water Treatment</i> , 2016, 57, 18109-18119.	1.0	15
60	CFD investigation of local properties of Al ₂ O ₃ /water nanofluid in a converging microchannel under imposed pressure difference. <i>Advanced Powder Technology</i> , 2017, 28, 763-774.	4.1	15
61	Novel γ -alumina@CuO-Fe ₂ O ₃ nanofluid for potential application in PEM fuel cell cooling systems: Towards neutralizing the increase of electrical conductivity. <i>Thermochimica Acta</i> , 2021, 695, 178818.	2.7	15
62	Experimental and simulation study of gas diffusion effect during gas injection into naturally fractured reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 438-447.	4.4	14
63	Application of new eco-friendly LCMs for combating the lost circulation in heavy-weight and oil-based mud. <i>RSC Advances</i> , 2018, 8, 9685-9696.	3.6	14
64	Physico-chemical properties prediction of hydrochar in macroalgae <i>Sargassum horneri</i> hydrothermal carbonisation. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-22.	3.3	14
65	An integrated microfluidic device for stem cell differentiation based on cell-imprinted substrate designed for cartilage regeneration in a rabbit model. <i>Materials Science and Engineering C</i> , 2021, 121, 111794.	7.3	14
66	CFD simulation of the hydrodynamics in an internal air-lift reactor with two different configurations. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 455-462.	4.4	13
67	Hydrodynamics and oxygen mass transfer in a packed bed split-cylinder airlift reactor containing dilute alcoholic solutions. <i>Heat and Mass Transfer</i> , 2013, 49, 11-19.	2.1	13
68	Hydrodynamics and mass transfer study of aliphatic alcohols in airlift reactors. <i>Chemical Engineering Research and Design</i> , 2013, 91, 925-932.	5.6	13
69	Adsorption of Pb(II), Cu(II) and Ni(II) ions from aqueous solutions by functionalised henna powder (<i>Lawsonia Inermis</i>); isotherm, kinetic and thermodynamic studies. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1-22.	3.3	13
70	Consideration of inclined mixers embedded inside a photobioreactor for microalgae cultivation using computational fluid dynamic and particle image velocimetry measurement. <i>Journal of Cleaner Production</i> , 2018, 195, 753-764.	9.3	12
71	A parametric study of the drying process of polypropylene particles in a pilot-scale fluidized bed dryer using Computational Fluid Dynamics. <i>Chemical Engineering Research and Design</i> , 2020, 156, 13-22.	5.6	12
72	Effects of surface active agents on hydrodynamics and mass transfer characteristics in a split-cylinder airlift bioreactor with packed bed. <i>Chemical Engineering Research and Design</i> , 2012, 90, 899-905.	5.6	11

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73	CFD modeling of hydrophobic pervaporation process: ethanol/water separation. <i>Desalination and Water Treatment</i> , 2013, 51, 3445-3453.	1.0	11
74	Biomolecular engineering of drugs loading in Riboflavin-targeted polymeric devices: simulation and experimental. <i>Scientific Reports</i> , 2022, 12, 5119.	3.3	11
75	3D Computational-Fluid-Dynamics Modeling of Horizontal Three-Phase Separators: An Approach for Estimating the Optimal Dimensions. <i>SPE Production and Operations</i> , 2018, 33, 879-895.	0.6	10
76	Effects of dynamic contact angle on immiscible two-phase flow displacement in angular pores: A computational fluid dynamics approach. <i>Journal of Molecular Liquids</i> , 2019, 292, 111457.	4.9	10
77	A CFD investigation into the enhancement of down-hole de-oiling hydro cyclone performance. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108352.	4.2	10
78	CFD modeling and experimental study of multi-walled carbon nanotubes production by fluidized bed catalytic chemical vapor deposition. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 984-989.	5.6	9
79	Generalized analytical solution for gravity drainage phenomena in finite matrix block with arbitrary time dependent inlet boundary condition and variable matrix block size. <i>Journal of Petroleum Science and Engineering</i> , 2018, 167, 227-240.	4.2	9
80	Three-dimensional multiphase CFD modeling of thermal-hydraulic characteristics of nanofluid flow in helical microchannels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1831-1846.	3.6	9
81	Synthesis and characterization of γ -MnO ₂ /chitosan/Fe ₃ O ₄ cross-linked with EDTA and the study of its efficiency for the elimination of zinc(II) and lead(II) from wastewater. <i>Environmental Science and Pollution Research</i> , 2021, 28, 9235-9254.	5.3	9
82	Modeling apparent viscosity of waxy crude oils doped with polymeric wax inhibitors. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 108076.	4.2	9
83	Rigorous modeling of frictional pressure loss in inclined annuli using artificial intelligence methods. <i>Journal of Petroleum Science and Engineering</i> , 2022, 211, 110203.	4.2	9
84	Hydrodynamics and Mass Transfer of Oily Micro-emulsions in An External Loop Airlift Reactor. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 267-273.	3.5	8
85	Experimental study of the formation of natural gas hydrates in the presence of NaCl and KCl. <i>Petroleum Science and Technology</i> , 2019, 37, 1924-1930.	1.5	8
86	Mutual Solubility Study in Supercritical Fluid Extraction of Tocopherols from Crude Palm Oil Using CO ₂ Solvent. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3649-3659.	4.1	7
87	Coupling of CFD and semiempirical methods for designing three-phase condensate separator: case study and experimental validation. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 353-382.	2.4	7
88	Computational and experimental studies of a cell-imprinted-based integrated microfluidic device for biomedical applications. <i>Scientific Reports</i> , 2021, 11, 12130.	3.3	7
89	Microfluidic Engineering of RGD-terminated Nanocarriers Micellization and In Situ Docetaxel Encapsulation: An Atomistic Insight. <i>ChemistrySelect</i> , 2022, 7, .	1.5	7
90	Influence of acetaminophen on gas hold-up, liquid circulation velocity and mass transfer coefficient in a split-cylinder airlift bioreactor. <i>Journal of Molecular Liquids</i> , 2012, 173, 113-118.	4.9	6

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91	Molecular engineering of the last-generation CNTs in smart cancer therapy by grafting PEG-PLGA-riboflavin. RSC Advances, 2020, 10, 40637-40648.	3.6	6
92	Hydrodynamics and mass transfer of oil-water micro-emulsion in a three phase internal airlift reactor. Fuel, 2012, 97, 197-201.	6.4	5
93	Application of generic cubic equations of state in the CFD simulation of the sweeping gas polytetrafluoroethylene (PTFE) membrane distillation. Desalination and Water Treatment, 2016, 57, 1647-1658.	1.0	5
94	Computational fluid dynamic modeling of a pervaporation process for removal of styrene from petrochemical wastewater. RSC Advances, 2016, 6, 15327-15339.	3.6	5
95	Synthesis, structure and mechanical properties of nanocomposites based on exfoliated nano magnesium silicate crystal and poly(acrylamide). Journal of Dispersion Science and Technology, 2019, 40, 276-286.	2.4	5
96	Morphological and structural insights into high aspect ratio lauric acid/TiO ₂ nanowires: A low-temperature synthesis. Ceramics International, 2021, 47, 9424-9436.	4.8	5
97	A low temperature synthesis of Ti/TiO ₂ /Fatty Acid/GO _x /ZnO and its evaluation for amoxicillin bio-photo-catalytic degradation. Journal of Molecular Liquids, 2021, 343, 116979.	4.9	5
98	Thermodynamic and Polymeric Inhibitors Effects on Methane Gas Hydrate Formation. Trends in Applied Sciences Research, 2012, 7, 505-513.	0.4	5
99	Insights into the pyrolysis of olive stone, waste polyvinyl chloride and Spirulina microalgae blends through thermogravimetric analysis. Algal Research, 2022, 62, 102635.	4.6	5
100	Oil removal from an oil-in-water emulsion by electrochemical process using Taguchi method. Desalination and Water Treatment, 2012, 49, 19-25.	1.0	4
101	CFD Simulation of hold-up and liquid circulation velocity in a membrane airlift reactor. Theoretical Foundations of Chemical Engineering, 2012, 46, 266-273.	0.7	4
102	Biosynthesized silver nanofluid effect on methane dissolution in water. Journal of Molecular Liquids, 2013, 184, 1-3.	4.9	4
103	Simulation of landfill leachate treatment using electro-Fenton technique. Water Science and Technology, 2014, 69, 343-349.	2.5	4
104	Experimental and Computational Study on the Microfluidic Control of Micellar Nanocarrier Properties. ACS Omega, 2021, 6, 23117-23128.	3.5	4
105	Investigation of bubble diameter and flow regime between water and dilute aqueous ethanol solutions in an airlift reactor. Frontiers of Chemical Science and Engineering, 2011, 5, 194-202.	4.4	3
106	Hydrodynamics and mass transfer study of oil-water micro-emulsion in a three phase external loop airlift reactor. RSC Advances, 2014, 4, 62347-62355.	3.6	3
107	A new physical modeling for two-phase wellbore storage due to phase redistribution. Journal of Petroleum Science and Engineering, 2020, 195, 107706.	4.2	3
108	Effects of topological changes in microchannel geometries on the hydrodynamic formation and breakup of all-aqueous droplets. Physics of Fluids, 2022, 34, .	4.0	3

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109	The Influence of Oil-water Ratio on the Operation of an Airlift Reactor Containing Petroleum-based Micro-emulsion. <i>Petroleum Science and Technology</i> , 2014, 32, 514-520.	1.5	2
110	Study on thermal and mechanical behaviors of polypropylene grade 552R/Cloisite 15A nanocomposites suitable for yarn applications. <i>Polymers and Polymer Composites</i> , 2021, 29, S325-S334.	1.9	2
111	In silico Tuning of Curcumin Loading on PEG Grafted Chitosan: An Atomistic Simulation. <i>ChemistrySelect</i> , 2021, 6, 4544-4555.	1.5	2
112	CFD Simulation of hydrodynamics of air sparging in a vertical tubular membrane. <i>Theoretical Foundations of Chemical Engineering</i> , 2013, 47, 779-787.	0.7	1
113	Effects of Convection and Fracture Boundary Conditions on Heat Transfer Shape Factor in Fractured Geothermal Reservoirs. <i>Transport in Porous Media</i> , 2018, 125, 357-375.	2.6	1
114	A new pressure and temperature dependent relative viscosity model for water-Al ₂ O ₃ nanofluids using GMDH neural network. <i>Petroleum Science and Technology</i> , 0, , 1-21.	1.5	1
115	XDEM study of burden distribution in iron ore pellet firing. <i>Ironmaking and Steelmaking</i> , 2022, 49, 615-625.	2.1	1
116	Patterned synthesis of nanowires in microheaters: design and operational aspects. <i>Microfluidics and Nanofluidics</i> , 2022, 26, 1.	2.2	1
117	Hydrodynamics and mass transfer coefficient in a split-cylindrical airlift bioreactor containing oil-in-water micro-emulsions. , 2010, , .		0
118	From nitrate determination using microfluidic sensors to photocatalytic process intensification. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-35.	3.3	0
119	EXPERIMENTAL INVESTIGATION AND CFD SIMULATION OF THE HYDRODYNAMIC AND MASS TRANSFER CHARACTERISTICS IN A SPLIT-CYLINDER AIRLIFT REACTOR CONTAINING PETROLEUM-WATER MICRO-EMULSIONS. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 2357-2370.	0.6	0