Wahyu Diono

List of Publications by Year in descending order

134 papers	3,002 citations	185998 28 h-index	205818 48 g-index
135 all docs	135 docs citations	135 times ranked	2873 citing authors

#	Article	IF	Citations
1	Pulsed Discharge Plasma over the Surface of an Aqueous Solution to Induce Lignin Decomposition. Arabian Journal for Science and Engineering, 2022, 47, 5923-5934.	1.7	1
2	Phytochemical compounds extraction from medicinal plants by subcritical water and its encapsulation via electrospraying. AEJ - Alexandria Engineering Journal, 2022, 61, 2116-2128.	3.4	9
3	Synthesis of titanium dioxide nanoparticle by means of discharge plasma over an aqueous solution under high-pressure gas environment. AEJ - Alexandria Engineering Journal, 2022, 61, 3805-3820.	3.4	6
4	Molecular dynamics simulation and thermodynamic model of vaporâ€“solid coexistence of the Lennardâ€“Jones fluid in cylindrical nanopores. Chemical Engineering Science, 2022, 248, 117116.	1.9	0
5	Thermodynamic model of extraction equilibrium in cylindrical nanopores validated with molecular dynamics simulation. Chemical Engineering Science, 2022, 248, 117115.	1.9	1
6	PVP/Highly Dispersed AgNPs Nanofibers Using Ultrasonic-Assisted Electrospinning. Polymers, 2022, 14, 599.	2.0	8
7	Enhancement of Curcuma xanthorrhiza Roxb Phytochemical Dissolution via Micronization Using a Supercritical Antisolvent Technique. ACS Omega, 2022, 7, 6345-6353.	1.6	0
8	Extraction of Functional Components from Freeze-Dried Angelica furcijuga Leaves Using Supercritical Carbon Dioxide. ACS Omega, 2022, 7, 5104-5111.	1.6	5
9	Synthesis of Hollow PVP/Ag Nanoparticle Composite Fibers via Electrospinning under a Dense CO2 Environment. Polymers, 2022, 14, 89.	2.0	9
10	Reduced-Pressure Process for Fabricating Tea Tree Oilâ€”Polyvinylpyrrolidone Electrospun Fibers. Polymers, 2022, 14, 743.	2.0	2
11	Gas/Liquid Pulsed Discharge Plasma in a Slug Flow Reactor under Pressurized Argon for Dye Decomposition. ACS Omega, 2022, 7, 12993-12999.	1.6	0
12	Synthesis of carbon-encapsulated metal-based nanoparticles by gas/liquid interfacial plasma under high pressure. Journal of Environmental Chemical Engineering, 2022, 10, 107771.	3.3	0
13	Curcumin-Loaded Liposome Preparation in Ultrasound Environment under Pressurized Carbon Dioxide. Foods, 2022, 11, 1469.	1.9	8
14	Ethanolâ€free extraction of resveratrol and its glycoside from Japanese knotweed rhizome by liquefied dimethyl ether without pretreatments. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2600.	0.8	13
15	Direct current gasâ€“liquid phase pulsed plasma polymerization of polypyrrole under atmospheric pressure. Plasma Processes and Polymers, 2021, 18, 2000186.	1.6	8
16	Bimetallic nanoparticle generation from AuÂâ^'ÂTiO2 film by pulsed laser ablation in an aqueous medium. AEJ - Alexandria Engineering Journal, 2021, 60, 2225-2234.	3.4	7
17	Surfactant-Free Decellularization of Porcine Aortic Tissue by Subcritical Dimethyl Ether. ACS Omega, 2021, 6, 13417-13425.	1.6	15
18	Enhancement of Lipid Extraction from Soya Bean by Addition of Dimethyl Ether as Entrainer into Supercritical Carbon Dioxide. Foods, 2021, 10, 1223.	1.9	6

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19	Pulsed Discharge Plasma in High-Pressure Environment for Water Pollutant Degradation and Nanoparticle Synthesis. Plasma, 2021, 4, 309-331.	0.7	3
20	Molecular Dynamics Simulation of Tolman Length and Interfacial Tension of Symmetric Binary Lennardâ€“Jones Liquid. Symmetry, 2021, 13, 1376.	1.1	1
21	Synthesis of Cerium Dioxide Nanoparticles by Gas/Liquid Pulsed Discharge Plasma in a Slug Flow Reactor. ACS Omega, 2021, 6, 20966-20974.	1.6	6
22	Preparation of Liposomes from Soy Lecithin Using Liquefied Dimethyl Ether. Foods, 2021, 10, 1789.	1.9	9
23	Surfactant-free preparation of an ostrich carotid artery scaffold using liquefied dimethyl ether and DNase. Arabian Journal of Chemistry, 2021, 14, 103280.	2.3	5
24	Improved Storage Stability of Lycopene Z-Isomers Utilizing Edible Media and Antioxidants to Promote Practical Applications. ACS Food Science & Technology, 2021, 1, 1677-1686.	1.3	5
25	Improvement in the Filtration Performance of an Ultraporous Nanofiber Membrane by Atmospheric Pressure Plasma-Induced Surface Modification. ACS Omega, 2021, 6, 28038-28048.	1.6	4
26	Room-temperature extraction of direct coal liquefaction residue by liquefied dimethyl ether. Fuel, 2020, 262, 116528.	3.4	15
27	Lipid extraction from microalgae covered with biomineralized cell walls using liquefied dimethyl ether. Fuel, 2020, 262, 116590.	3.4	45
28	Direct Extraction of Lutein from Wet Macroalgae by Liquefied Dimethyl Ether without Any Pretreatment. ACS Omega, 2020, 5, 24005-24010.	1.6	21
29	Ethanol-free antisolvent crystallization of glycine by liquefied dimethyl ether. Heliyon, 2020, 6, e05258.	1.4	11
30	Enhanced production of Î²-carotene suspensions using supercritical CO2 via naturally occurring Z-isomerization-accelerating catalyst. IOP Conference Series: Materials Science and Engineering, 2020, 778, 012008.	0.3	0
31	Atmospheric-Pressure Pulsed Discharge Plasma in a Slug Flow Reactor System for the Synthesis of Gold Nanoparticles. ACS Omega, 2020, 5, 17679-17685.	1.6	6
32	Preparation of liposomes encapsulating Î²â€“carotene using supercritical carbon dioxide with ultrasonication. Journal of Supercritical Fluids, 2020, 161, 104848.	1.6	20
33	One-Step Preparation of Z-Isomer-Rich Î²-Carotene Nanosuspensions Utilizing a Natural Catalyst, Allyl Isothiocyanate, via Supercritical CO2. Symmetry, 2020, 12, 777.	1.1	8
34	DC-Plasma over Aqueous Solution for the Synthesis of Titanium Dioxide Nanoparticles under Pressurized Argon. ACS Omega, 2020, 5, 5443-5451.	1.6	13
35	Formation of Fine Particles from Curcumin/PVP by the Supercritical Antisolvent Process with a Coaxial Nozzle. ACS Omega, 2020, 5, 6705-6714.	1.6	21
36	Nonthermal Atmospheric Pressure Plasma for Methylene Blue Dye Decolorization by Using Slug Flow Reactor System. Plasma Chemistry and Plasma Processing, 2020, 40, 985-1000.	1.1	7

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37	Ultrasonic-Enhanced Fabrication of Metal Nanoparticles by Laser Ablation in Liquid. Industrial & Engineering Chemistry Research, 2020, 59, 7512-7519.	1.8	13
38	Water removal from wood biomass by liquefied dimethyl ether for enhancing heating value. Energy Reports, 2020, 6, 824-831.	2.5	8
39	Electrospraying technique under pressurized carbon dioxide for hollow particle production. Reactive and Functional Polymers, 2019, 142, 44-52.	2.0	4
40	Improved Carotenoid Processing with Sustainable Solvents Utilizing Z-Isomerization-Induced Alteration in Physicochemical Properties: A Review and Future Directions. Molecules, 2019, 24, 2149.	1.7	64
41	Particle micronization of Curcuma mangga rhizomes ethanolic extract/biopolymer PVP using supercritical antisolvent process. Journal of Supercritical Fluids, 2019, 146, 226-239.	1.6	19
42	Atmospheric-pressure pulsed discharge plasma in capillary slug flow system for dye decomposition. Chemical Engineering and Processing: Process Intensification, 2019, 135, 133-140.	1.8	18
43	Synthesis of silver nanoparticles by atmospheric-pressure pulsed discharge plasma in a slug flow system. Japanese Journal of Applied Physics, 2019, 58, 016001.	0.8	17
44	Synthesis of Ceria Zirconia Oxides using Solvothermal Treatment. MATEC Web of Conferences, 2018, 156, 05014.	0.1	4
45	Nanoparticle formation of PVP/astaxanthin inclusion complex by solution-enhanced dispersion by supercritical fluids (SEDS): Effect of PVP and astaxanthin Z-isomer content. Journal of Supercritical Fluids, 2018, 136, 44-51.	1.6	60
46	Effect of thermal treatment and light irradiation on the stability of lycopene with high Z-isomers content. Food Chemistry, 2018, 250, 253-258.	4.2	53
47	Formation of <scp>Au</scp>â€“carbon nanoparticles by laser ablation under pressurized <scp>CO₂</scp>. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2176.	0.8	5
48	Efficacy of supercritical carbon dioxide integrated hydrothermal extraction of Khmer medicinal plants with potential pharmaceutical activity. Journal of Environmental Chemical Engineering, 2018, 6, 2944-2956.	3.3	10
49	Production of Î²-carotene nanosuspensions using supercritical CO2 and improvement of its efficiency by Z-isomerization pre-treatment. Journal of Supercritical Fluids, 2018, 138, 124-131.	1.6	26
50	Extraction of Phytochemical Compounds from Eucheuma cottonii and Gracilaria sp using Supercritical CO₂ Followed by Subcritical Water. MATEC Web of Conferences, 2018, 156, 03051.	0.1	6
51	Subcritical water extraction enhancement by adding deep eutectic solvent for extracting xanthone from mangosteen pericarps. Journal of Supercritical Fluids, 2018, 133, 615-624.	1.6	52
52	Micronization of curcumin with biodegradable polymer by supercritical anti-solvent using micro swirl mixer. Frontiers of Chemical Science and Engineering, 2018, 12, 184-193.	2.3	38
53	Enhanced Lycopene Extraction from Gac (Momordica cochinchinensis Spreng.) by the Zâ€Isomerization Induced with Microwave Irradiation Preâ€Treatment. European Journal of Lipid Science and Technology, 2018, 120, 1700293.	1.0	26
54	Effect of the Z-isomer content on nanoparticle production of lycopene using solution-enhanced dispersion by supercritical fluids (SEDS). Journal of Supercritical Fluids, 2018, 133, 291-296.	1.6	26

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55	Electrospinning of poly(vinyl pyrrolidone) fibers containing metal oxide nanoparticles under dense CO2. Research on Chemical Intermediates, 2018, 44, 2215-2230.	1.3	5
56	Micronization for Enhancement of Curcumin Dissolution via Electrospraying Technique. ChemEngineering, 2018, 2, 60.	1.0	20
57	Rapid and Selective Concentration of Lycopene <i>Z</i>-isomers from Tomato Pulp by Supercritical CO₂ with Co-solvents. Solvent Extraction Research and Development, 2018, 25, 47-57.	0.5	23
58	Enhanced solubility and reduced crystallinity of carotenoids, Î²-carotene and astaxanthin, by Z -isomerization. European Journal of Lipid Science and Technology, 2018, 120, 1800191.	1.0	43
59	Glycine Oligomerization by Pulsed Discharge Plasma over Aqueous Solution under Atmospheric Pressure. ChemEngineering, 2018, 2, 17.	1.0	4
60	Microwaveâ€Accelerated Zâ€isomerization of (allâ€E)â€Lycopene in Tomato Oleoresin and Enhancement of the Conversion by Vegetable Oils Containing Disulfide Compounds. European Journal of Lipid Science and Technology, 2018, 120, 1800060.	1.0	27
61	Crystallization of All Transâ€“bâ€“carotene by Supercritical Carbon Dioxide Antisolvent via Coâ€“axial Nozzle. Engineering Journal, 2018, 22, 25-38.	0.5	9
62	Supercritical Fluids Extraction of Valuable Compounds from Algae: Future Perspectives and Challenges. Engineering Journal, 2018, 22, 13-30.	0.5	31
63	Esterification of high free fatty acids in supercritical methanol using sulfated angel wing shells as catalyst. Journal of Supercritical Fluids, 2017, 124, 1-9.	1.6	28
64	The E/Z isomer ratio of lycopene in foods and effect of heating with edible oils and fats on isomerization of (allâ€E)â€lycopene. European Journal of Lipid Science and Technology, 2017, 119, 1600389.	1.0	53
65	One-step synthesis of waterâ€“dispersible carbon nanocapsules by pulsed arc discharge over aqueous solution under pressurized argon. Research on Chemical Intermediates, 2017, 43, 4201-4211.	1.3	8
66	Hydrogen Peroxide Formation by Electric Discharge with Fine Bubbles. Plasma Chemistry and Plasma Processing, 2017, 37, 125-135.	1.1	14
67	Extraction of curcumin from Curcuma longa L. using ultrasound assisted supercritical carbon dioxide. AIP Conference Proceedings, 2017, , .	0.3	11
68	Extraction of phenolic compounds and antioxidant activity from garlic husk using carbon dioxide expanded ethanol. Chemical Engineering and Processing: Process Intensification, 2017, 117, 113-119.	1.8	44
69	Reaction of Clâ^' ions in electrolyte solution induced electrical discharge plasma in the presence of argon fine bubbles. AIP Conference Proceedings, 2017, , .	0.3	0
70	The thermal Z-isomerization-induced change in solubility and physical properties of (all-E)-lycopene. Biochemical and Biophysical Research Communications, 2017, 491, 317-322.	1.0	48
71	Thermal isomerization pre-treatment to improve lycopene extraction from tomato pulp. LWT - Food Science and Technology, 2017, 86, 69-75.	2.5	36
72	Thermal isomerization of (all-E)-lycopene and separation of the Z-isomers by using a low boiling solvent: Dimethyl ether. Separation Science and Technology, 2017, 52, 2573-2582.	1.3	11

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73	Fluorine-doped tin oxide catalyst for glycerol conversion to methanol in sub-critical water. Journal of Supercritical Fluids, 2017, 120, 366-378.	1.6	10
74	Synthesis of hydrophilic carbon nanoparticles from amino acids by pulsed arc discharge over aqueous solution in argon under near-critical pressure. Journal of Supercritical Fluids, 2017, 120, 403-407.	1.6	11
75	Hydrolysis of Biopolymers in Near-Critical and Subcritical Water. , 2017, , 69-107.		22
76	Extraction of Lipids from Wet <i>Arthrospira platensis</i> by Liquefied Dimethyl Ether. Solvent Extraction Research and Development, 2017, 24, 47-60.	0.5	19
77	Hydrothermal extraction of antioxidant compounds from mangosteen pericarp with low-transition-temperature mixture and sonication pretreatment. AIP Conference Proceedings, 2017, , .	0.3	2
78	Extraction of Phytochemicals from Grains of Paradise Using Supercritical Carbon Dioxide. Engineering Journal, 2017, 21, 53-64.	0.5	3
79	Effect of Solvent on Nanoparticle Production of Î²â€Carotene by a Supercritical Antisolvent Process. Chemical Engineering and Technology, 2016, 39, 1771-1777.	0.9	11
80	Generation of multihollow structured poly(methyl methacrylate) fibers by electrospinning under pressurized <scp>CO₂</scp>. Polymer Engineering and Science, 2016, 56, 752-759.	1.5	10
81	Nickel nanoparticles generated by pulsed laser ablation in liquid CO2. Research on Chemical Intermediates, 2016, 42, 4581-4590.	1.3	6
82	Extraction of phytochemicals from saffron by supercritical carbon dioxide with water and methanol as entrainer. Journal of Supercritical Fluids, 2016, 107, 377-383.	1.6	42
83	Macroporous zirconia particles prepared by subcritical water in batch and flow processes. Research on Chemical Intermediates, 2016, 42, 5367-5385.	1.3	4
84	Extraction ofÎ²â€“glucan by hydrothermal liquidization of barley grain in a semi-batch reactor. Separation Science and Technology, 2016, 51, 278-289.	1.3	16
85	Extraction of valuable compounds from mangosteen pericarps by hydrothermal assisted sonication. AIP Conference Proceedings, 2015, , .	0.3	0
86	Hydrophilic polymer composites synthesized by electrospinning under dense carbon dioxide. AIP Conference Proceedings, 2015, , .	0.3	1
87	Supercritical Fluid Extraction of Carotenoids. Food Engineering Series, 2015, , 397-426.	0.3	2
88	Magnetite thin film on mild steel formed by hydrothermal electrolysis for corrosion prevention. Chemical Engineering Journal, 2015, 268, 76-85.	6.6	15
89	Enhancing pressurized water extraction of Î²-glucan from barley grain by adding CO2 under hydrothermal conditions. Chemical Engineering and Processing: Process Intensification, 2015, 97, 45-54.	1.8	29
90	Extraction of carotenoids and lipids from algae by supercritical CO2 and subcritical dimethyl ether. Journal of Supercritical Fluids, 2015, 96, 245-251.	1.6	139

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91	Extraction of Fucoxanthin from Raw Macroalgae excluding Drying and Cell Wall Disruption by Liquefied Dimethyl Ether. Marine Drugs, 2014, 12, 2383-2396.	2.2	83
92	Characteristics of optical emission intensities and bubblelike phenomena induced by laser ablation in supercritical fluids. Japanese Journal of Applied Physics, 2014, 53, 010213.	0.8	7
93	Fabrication of micro-hollow fiber by electrospinning process in near-critical carbon dioxide. , 2014, , .		1
94	Decomposition of methyl orange using pulsed discharge plasma at atmospheric pressure: Effect of different electrodes. Japanese Journal of Applied Physics, 2014, 53, 010212.	0.8	20
95	Formation of PVP hollow fibers by electrospinning in one-step process at sub and supercritical CO2. Chemical Engineering and Processing: Process Intensification, 2014, 77, 1-6.	1.8	30
96	Hot compressed water extraction of polysaccharides from Ganoderma lucidum using a semibatch reactor. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 125-133.	0.8	19
97	Extraction of rice bran oil by supercritical carbon dioxide and solubility consideration. Separation and Purification Technology, 2014, 125, 319-325.	3.9	73
98	Synthesis of ZrO2 nanoparticles by hydrothermal treatment. AIP Conference Proceedings, 2014, , .	0.3	16
99	Subcritical Water Extraction and Direct Formation of Microparticulate Polysaccharides Powders from Ganoderma Lucidum. International Journal of Technology, 2014, 5, 40.	0.4	16
100	Generation of PVP fibers by electrospinning in one-step process under high-pressure CO2. International Journal of Industrial Chemistry, 2013, 4, 1.	3.1	11
101	Nanoparticle formation of lycopene/Î²-cyclodextrin inclusion complex using supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2013, 83, 97-103.	1.6	84
102	Palm oil transesterification in sub- and supercritical methanol with heterogeneous base catalyst. Chemical Engineering and Processing: Process Intensification, 2013, 72, 63-67.	1.8	48
103	Selective conversion of glucose into lactic acid and acetic acid with copper oxide under hydrothermal conditions. AIChE Journal, 2013, 59, 2096-2104.	1.8	61
104	Non-catalytic reduction of total acid number (TAN) of naphthenic acids (NAs) using supercritical methanol. Fuel Processing Technology, 2013, 106, 641-644.	3.7	30
105	Fabrication of gold and silver nanoparticles with pulsed laser ablation under pressurized CO ₂. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2013, 4, 045011.	0.7	22
106	Oxidative Decoloration of Dyes by Pulsed Discharge Plasma over a Water Surface under Argon Atmospheric. Transactions of the Materials Research Society of Japan, 2013, 38, 61-67.	0.2	3
107	Pyrrole conversion induced pulse discharge plasma over a water surface under high-pressure argon. Chemical Engineering and Processing: Process Intensification, 2012, 61, 51-57.	1.8	17
108	Silver nanoparticles generated by pulsed laser ablation in supercritical CO₂medium. High Pressure Research, 2012, 32, 60-66.	0.4	19

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109	Production of nanofibers by electrospinning under pressurized CO₂. High Pressure Research, 2012, 32, 54-59.	0.4	14
110	Nickel removal from nickel etioporphyrin (Ni-EP) using supercritical water in the absence of catalyst. Fuel Processing Technology, 2012, 104, 67-72.	3.7	24
111	Non-catalytic vanadium removal from vanadyl etioporphyrin (VO-EP) using a mixed solvent of supercritical water and toluene: A kinetic study. Fuel, 2012, 92, 288-294.	3.4	27
112	Reduction of total acid number (TAN) of naphthenic acid (NA) using supercritical water for reducing corrosion problems of oil refineries. Fuel, 2012, 94, 620-623.	3.4	24
113	Preparation of Nano-Sized Materials with Pulsed Power Irradiation in Supercritical Fluids. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2012, 22, 97-103.	0.1	0
114	Reaction of pyrrole induced pulsed discharge plasma over a water surface and supercritical water. , 2011, , .		0
115	Nano-structured particles production using pulsed laser ablation of gold plate in supercritical CO2. Journal of Supercritical Fluids, 2011, 60, 63-68.	1.6	31
116	Non-catalytic liquefaction of bitumen with hydrothermal/solvothermal process. Journal of Supercritical Fluids, 2011, 60, 127-136.	1.6	24
117	Degradation of glycerol using hydrothermal process. Bioresource Technology, 2011, 102, 9267-9271.	4.8	66
118	Bitumen upgrading under solvothermal/hydrothermal conditions. Research on Chemical Intermediates, 2011, 37, 375-381.	1.3	4
119	Reaction kinetics and mechanism for hydrothermal degradation and electrolysis of glucose for producing carboxylic acids. Research on Chemical Intermediates, 2011, 37, 457-466.	1.3	11
120	Gold nanoparticles fabricated by pulsed laser ablation in supercritical CO2. Research on Chemical Intermediates, 2011, 37, 515-522.	1.3	12
121	Thermal decomposition of guaiacol in sub- and supercritical water and its kinetic analysis. Journal of Material Cycles and Waste Management, 2011, 13, 68-79.	1.6	83
122	Nickel removal from nickel-5,10,15,20-tetraphenylporphine using supercritical water in absence of catalyst: A basic study. Journal of Hazardous Materials, 2011, 187, 600-603.	6.5	18
123	Pulsed laser ablation in pressurized CO<inf>2</inf> for nanoparticles fabrication. , 2011, , .		0
124	Kinetics and Reaction Pathways for Heptylbenzene Decomposition in Supercritical Water. Journal of Chemical Engineering of Japan, 2011, 44, 486-493.	0.3	10
125	Applications of hydrothermal electrolysis for conversion of 1-butanol in wastewater treatment. Fuel Processing Technology, 2010, 91, 1125-1132.	3.7	10
126	Conversion of biomass model compound under hydrothermal conditions using batch reactor. Fuel, 2009, 88, 1656-1664.	3.4	89

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127	Kinetic study for liquefaction of tar in sub- and supercritical water. Polymer Degradation and Stability, 2008, 93, 1194-1204.	2.7	20
128	Recovery of phenolic compounds through the decomposition of lignin in near and supercritical water. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1609-1619.	1.8	273
129	Supercritical Methanol Process of Modifying Oil Byproduct for Concentrating Natural Tocopherols. Industrial & Engineering Chemistry Research, 2007, 46, 5325-5332.	1.8	12
130	Decomposition of a Lignin Model Compound under Hydrothermal Conditions. Chemical Engineering and Technology, 2007, 30, 1113-1122.	0.9	152
131	Noncatalytic liquefaction of tar with low-temperature hydrothermal treatment. Journal of Material Cycles and Waste Management, 2007, 9, 173-181.	1.6	12
132	Recovery of Phenol through the Decomposition of Tar under Hydrothermal Alkaline Conditions. Chemical Engineering and Technology, 2006, 29, 882-889.	0.9	16
133	Sorption Efficiency in Dye Removal and Thermal Stability of Sorghum Stem Aerogel. Materials Science Forum, 0, 966, 175-180.	0.3	2
134	Extraction of diterpenes from spent coffee grounds and encapsulation into polyvinylpyrrolidone particles using supercritical carbon dioxide. Separation Science and Technology, 0, , 1-16.	1.3	2