

Hu Yang

List of Publications by Year in descending order

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121
papers

7,488
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44042

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docs citations

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times ranked

7294
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on chitosan-based flocculants and their applications in water treatment. <i>Water Research</i> , 2016, 95, 59-89.	5.3	530
2	Coagulation/flocculation in dewatering of sludge: A review. <i>Water Research</i> , 2018, 143, 608-631.	5.3	476
3	Effects of the oxidation degree of graphene oxide on the adsorption of methylene blue. <i>Journal of Hazardous Materials</i> , 2014, 268, 191-198.	6.5	287
4	Preparation of chitosan/poly(acrylic acid) magnetic composite microspheres and applications in the removal of copper(II) ions from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 371-380.	6.5	251
5	Flocculation of both anionic and cationic dyes in aqueous solutions by the amphoteric grafting flocculant carboxymethyl chitosan-graft-polyacrylamide. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 36-45.	6.5	236
6	Novel approach for effective removal of methylene blue dye from water using fava bean peel waste. <i>Scientific Reports</i> , 2020, 10, 7824.	1.6	174
7	Efficient adsorption of both methyl orange and chromium from their aqueous mixtures using a quaternary ammonium salt modified chitosan magnetic composite adsorbent. <i>Chemosphere</i> , 2016, 154, 310-318.	4.2	161
8	Enhanced and selective adsorption of copper(II) ions on surface carboxymethylated chitosan hydrogel beads. <i>Chemical Engineering Journal</i> , 2011, 174, 586-594.	6.6	155
9	Adsorption of anionic dyes from aqueous solutions using chemically modified straw. <i>Bioresource Technology</i> , 2012, 117, 40-47.	4.8	153
10	Flocculation performance and mechanism of graphene oxide for removal of various contaminants from water. <i>Water Research</i> , 2013, 47, 3037-3046.	5.3	153
11	Simple method for preparation of chitosan/poly(acrylic acid) blending hydrogel beads and adsorption of copper(II) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2010, 165, 240-249.	6.6	152
12	Evaluation of the flocculation performance of carboxymethyl chitosan-graft-polyacrylamide, a novel amphoteric chemically bonded composite flocculant. <i>Water Research</i> , 2012, 46, 107-114.	5.3	147
13	Phosphate adsorption from aqueous solutions by disused adsorbents: Chitosan hydrogel beads after the removal of copper(II). <i>Chemical Engineering Journal</i> , 2011, 166, 970-977.	6.6	144
14	Sorption of methylene blue by carboxymethyl cellulose and reuse process in a secondary sorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 143-151.	2.3	140
15	Removal of various cationic dyes from aqueous solutions using a kind of fully biodegradable magnetic composite microsphere. <i>Chemical Engineering Journal</i> , 2013, 223, 402-411.	6.6	139
16	Adsorption properties and mechanisms of palygorskite for removal of various ionic dyes from water. <i>Applied Clay Science</i> , 2018, 151, 20-28.	2.6	137
17	Evaluation of chain architectures and charge properties of various starch-based flocculants for flocculation of humic acid from water. <i>Water Research</i> , 2016, 96, 126-135.	5.3	126
18	Removal of dyes from aqueous solutions by straw based adsorbents: Batch and column studies. <i>Chemical Engineering Journal</i> , 2011, 168, 1120-1127.	6.6	125

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19	Influence of the Surface Structure of Graphene Oxide on the Adsorption of Aromatic Organic Compounds from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6690-6697.	4.0	125
20	pH-tunable surface charge of chitosan/graphene oxide composite adsorbent for efficient removal of multiple pollutants from water. <i>Chemical Engineering Journal</i> , 2016, 284, 1397-1405.	6.6	123
21	Evaluation of structural effects on the flocculation performance of a co-graft starch-based flocculant. <i>Water Research</i> , 2017, 118, 160-166.	5.3	108
22	Flocculation properties of biodegradable amphoteric chitosan-based flocculants. <i>Chemical Engineering Journal</i> , 2011, 172, 287-295.	6.6	106
23	Preparation of chitosan-graft-polyacrylamide magnetic composite microspheres for enhanced selective removal of mercury ions from water. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 261-270.	5.0	102
24	Removal of methylene blue from aqueous solutions by straw based adsorbent in a fixed-bed column. <i>Chemical Engineering Journal</i> , 2011, 173, 429-436.	6.6	97
25	Flocculation of <i>Escherichia coli</i> Using a Quaternary Ammonium Salt Grafted Carboxymethyl Chitosan Flocculant. <i>Environmental Science & Technology</i> , 2014, 48, 6867-6873.	4.6	95
26	Evaluation of a novel chitosan-based flocculant with high flocculation performance, low toxicity and good floc properties. <i>Journal of Hazardous Materials</i> , 2014, 276, 480-488.	6.5	92
27	Antiscalants in RO membrane scaling control. <i>Water Research</i> , 2020, 183, 115985.	5.3	89
28	Sludge dewaterability of a starch-based flocculant and its combined usage with ferric chloride. <i>Chemical Engineering Journal</i> , 2018, 349, 737-747.	6.6	87
29	Flocculation and antimicrobial properties of a cationized starch. <i>Water Research</i> , 2017, 119, 57-66.	5.3	84
30	Preparation of Strong Cationic Chitosan-graft-Polyacrylamide Flocculants and Their Flocculating Properties. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7141-7149.	1.8	80
31	Synthesis of amphoteric starch-based grafting flocculants for flocculation of both positively and negatively charged colloidal contaminants from water. <i>Chemical Engineering Journal</i> , 2014, 244, 209-217.	6.6	80
32	Effect of hydrolysis degree of hydrolyzed polyacrylamide grafted carboxymethyl cellulose on dye removal efficiency. <i>Cellulose</i> , 2013, 20, 2605-2614.	2.4	78
33	Preparation of dual-function starch-based flocculants for the simultaneous removal of turbidity and inhibition of <i>Escherichia coli</i> in water. <i>Water Research</i> , 2016, 98, 128-137.	5.3	73
34	Rapid Removal and Separation of Iron(II) and Manganese(II) from Micropolluted Water Using Magnetic Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9871-9880.	4.0	72
35	Solvation Behaviors of <i>N</i> -Isopropylacrylamide in Water/Methanol Mixtures Revealed by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8652-8658.	1.2	69
36	Efficient removal of both cationic and anionic dyes from aqueous solutions using a novel amphoteric straw-based adsorbent. <i>Carbohydrate Polymers</i> , 2012, 90, 887-893.	5.1	69

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37	Effects of substitution degree and molecular weight of carboxymethyl starch on its scale inhibition. <i>Desalination</i> , 2017, 408, 60-69.	4.0	69
38	Evaluation of the structural morphology of starch-graft-poly(acrylic acid) on its scale-inhibition efficiency. <i>Water Research</i> , 2018, 141, 86-95.	5.3	69
39	Efficient removal of phosphorus from turbid water using chemical sedimentation by FeCl ₃ in conjunction with a starch-based flocculant. <i>Water Research</i> , 2020, 170, 115361.	5.3	59
40	Efficient flocculation of an anionic dye from aqueous solutions using a cellulose-based flocculant. <i>Cellulose</i> , 2015, 22, 1439-1449.	2.4	58
41	Dual functionality of a graft starch flocculant: Flocculation and antibacterial performance. <i>Journal of Environmental Management</i> , 2017, 196, 63-71.	3.8	58
42	Evaluation of starch-based flocculants for the flocculation of dissolved organic matter from textile dyeing secondary wastewater. <i>Chemosphere</i> , 2017, 174, 200-207.	4.2	57
43	Evaluation of the selective adsorption of silica-sand/anionized-starch composite for removal of dyes and Copper(II) from their aqueous mixtures. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 1285-1293.	3.6	56
44	New insights into viscosity abnormality of sodium alginate aqueous solution. <i>Carbohydrate Polymers</i> , 2010, 81, 948-952.	5.1	53
45	Flocculation of Both Kaolin and Hematite Suspensions Using the Starch-Based Flocculants and Their Floc Properties. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 59-67.	1.8	53
46	Simultaneous removal of acid green 25 and mercury ions from aqueous solutions using glutamine modified chitosan magnetic composite microspheres. <i>Environmental Pollution</i> , 2016, 209, 21-29.	3.7	53
47	Evaluation of the starch-based flocculants on flocculation of hairwork wastewater. <i>Science of the Total Environment</i> , 2017, 601-602, 1628-1637.	3.9	52
48	NMR Study on the Effects of Sodium Dodecyl Sulfate on the Coil-to-Globule Transition of Poly(N-isopropylacrylamide) in Aqueous Solutions. <i>Macromolecules</i> , 2011, 44, 6227-6231.	2.2	51
49	Dewaterability of sewage sludge conditioned with a graft cationic starch-based flocculant: Role of structural characteristics of flocculant. <i>Water Research</i> , 2021, 189, 116578.	5.3	49
50	Evaluating the effects of the preoxidation of H ₂ O ₂ , NaClO, and KMnO ₄ and reflocculation on the dewaterability of sewage sludge. <i>Chemosphere</i> , 2019, 234, 942-952.	4.2	47
51	Insights into the effects of acidification on sewage sludge dewaterability through pH repeated adjustment. <i>Chemosphere</i> , 2019, 227, 269-276.	4.2	46
52	Construction of natural polymeric imprinted materials and their applications in water treatment: A review. <i>Journal of Hazardous Materials</i> , 2021, 403, 123643.	6.5	46
53	Selective adsorption of ofloxacin and ciprofloxacin from a binary system using lignin-based adsorbents: Quantitative analysis, adsorption mechanisms, and structure-activity relationship. <i>Science of the Total Environment</i> , 2021, 765, 144427.	3.9	46
54	Enhanced photo-Fenton degradation of fluoroquinolones in water assisted by a 3D composite sponge complexed with a S-scheme MoS ₂ /Bi ₂ S ₃ /BiVO ₄ ternary photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121580.	10.8	44

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55	A new method for calculation of flocculation kinetics combining Smoluchowski model with fractal theory. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 423, 11-19.	2.3	40
56	Enhanced coagulation of low-turbidity micro-polluted surface water: Properties and optimization. <i>Journal of Environmental Management</i> , 2019, 233, 739-747.	3.8	40
57	The flocculating properties of chitosan-graft-polyacrylamide flocculants (I) effect of the grafting ratio. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1876-1882.	1.3	39
58	Effects of the content of silane coupling agent KH560 on the properties of LLDPE/magnesium hydroxide composites. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2634-2641.	1.3	39
59	Investigation of multiple adsorption mechanisms for efficient removal of ofloxacin from water using lignin-based adsorbents. <i>Scientific Reports</i> , 2019, 9, 637.	1.6	38
60	A simple strategy for selective photocatalysis degradation of organic dyes through selective adsorption enrichment by using a complex film of CdS and carboxymethyl starch. <i>Journal of Environmental Management</i> , 2020, 274, 111184.	3.8	38
61	Effect of Surfactant Concentration on the Complex Structure of Poly(N-isopropylacrylamide)/Sodium Dodecyl Sulfate in Aqueous Solutions. <i>Macromolecules</i> , 2012, 45, 5524-5529.	2.2	36
62	Hierarchically Z-scheme photocatalyst of {0 1 0}BiVO ₄ /Ag/CdS with enhanced performance in synergistic adsorption-photodegradation of fluoroquinolones in water. <i>Chemical Engineering Journal</i> , 2022, 435, 134834.	6.6	36
63	Evaluation of the structural factors for the flocculation performance of a co-graft cationic starch-based flocculant. <i>Chemosphere</i> , 2020, 240, 124866.	4.2	35
64	Thermal characterization of carbon-nanofiber-reinforced tetraglycidyl-4,4'-diaminodiphenylmethane/4,4'-diaminodiphenylsulfone epoxy composites. <i>Journal of Applied Polymer Science</i> , 2006, 100, 295-298.	1.3	34
65	Scale-inhibition and flocculation dual-functionality of poly(acrylic acid) grafted starch. <i>Journal of Environmental Management</i> , 2018, 210, 273-279.	3.8	33
66	An enhanced coagulation using a starch-based coagulant assisted by polysilicic acid in treating simulated and real surface water. <i>Chemosphere</i> , 2020, 259, 127464.	4.2	33
67	Cationic content effects of biodegradable amphoteric chitosan-based flocculants on the flocculation properties. <i>Journal of Environmental Sciences</i> , 2012, 24, 1378-1385.	3.2	31
68	A quantitative analyses of the viscometric data of the coil-to-globule and globule-to-coil transition of poly(N-isopropylacrylamide) in water. <i>Polymer</i> , 2003, 44, 7175-7180.	1.8	30
69	Synthesis and characterization of biodegradable triblock copolymers based on bacterial poly[(R)-3-hydroxybutyrate] by atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4857-4869.	2.5	30
70	New insight into "polyelectrolyte effect". <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 407, 1-8.	2.3	28
71	Modeling and optimization of the flocculation processes for removal of cationic and anionic dyes from water by an amphoteric grafting chitosan-based flocculant using response surface methodology. <i>Environmental Science and Pollution Research</i> , 2015, 22, 13038-13048.	2.7	28
72	Highly selective adsorption of dyes and arsenate from their aqueous mixtures using a silica-sand/cationized-starch composite. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 210-219.	2.2	28

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73	Control of gypsum-dominated scaling in reverse osmosis system using carboxymethyl cellulose. <i>Journal of Membrane Science</i> , 2019, 577, 20-30.	4.1	28
74	Treatment of potato starch wastewater by dual natural flocculants of chitosan and poly-glutamic acid. <i>Journal of Cleaner Production</i> , 2020, 264, 121641.	4.6	27
75	Preparation of magnetic chitosan microspheres and its applications in wastewater treatment. <i>Science in China Series B: Chemistry</i> , 2009, 52, 249-256.	0.8	26
76	Amphoteric starch-based flocculants can flocculate different contaminants with even opposite surface charges from water through molecular structure control. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 455, 28-35.	2.3	26
77	Immobilization of metals in contaminated soils using natural polymer-based stabilizers. <i>Environmental Pollution</i> , 2017, 222, 348-355.	3.7	26
78	Removal of fluoroquinolone antibiotics using actinia-shaped lignin-based adsorbents: Role of the length and distribution of branched-chains. <i>Journal of Hazardous Materials</i> , 2021, 403, 123603.	6.5	25
79	Syntheses, crystal structures, dye degradation and luminescence sensing properties of four coordination polymers. <i>CrystEngComm</i> , 2020, 22, 2327-2335.	1.3	24
80	The flocculating properties of chitosan-graft-polyacrylamide flocculants (II) Test in pilot scale. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2016-2024.	1.3	23
81	Evaluation of acidification and oxidation of sludge to improve the effect of a starch-based flocculant on the dewaterability of sewage sludge. <i>Journal of Environmental Management</i> , 2019, 231, 405-412.	3.8	23
82	Application of a green coagulant with PACl in efficient purification of turbid water and its mechanism study. <i>Journal of Environmental Sciences</i> , 2019, 81, 168-180.	3.2	21
83	Class transition of the two distinct single-chain particles of poly(N-isopropylacrylamide). <i>European Physical Journal E</i> , 2005, 17, 1-5.	0.7	19
84	Investigation of the structure of poly(vinyl alcohol)-iodine complex hydrogels prepared from the concentrated polymer solutions. <i>Polymer</i> , 2008, 49, 785-791.	1.8	18
85	Shear induced self-thickening in chitosan-grafted polyacrylamide aqueous solution. <i>Soft Matter</i> , 2013, 9, 1835-1843.	1.2	18
86	The influence of hydrophobicity on sludge dewatering associated with cationic starch-based flocculants. <i>Journal of Environmental Management</i> , 2021, 296, 113218.	3.8	18
87	Fabrication of environmentally-friendly composited sponges for efficient removal of fluoroquinolones antibiotics from water. <i>Journal of Hazardous Materials</i> , 2022, 426, 127796.	6.5	18
88	Efficient removal of chlorophenols from water with a magnetic reduced graphene oxide composite. <i>Science China Chemistry</i> , 2016, 59, 350-359.	4.2	17
89	The role of solvation on the conformational change during repeated freezing-thawing treatment to an extremely dilute aqueous solution of poly(vinyl alcohol). <i>Polymer</i> , 2005, 46, 7557-7562.	1.8	16
90	Fabrication of 3D lignosulfonate composited sponges impregnated by BiVO ₄ /polyaniline/Ag ternary photocatalyst for synergistic adsorption-photodegradation of fluoroquinolones in water. <i>Chemical Engineering Journal</i> , 2022, 446, 137282.	6.6	16

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91	Solid-state ¹³ C NMR investigation of the structure and hydrogen bonding for stereoregular poly(vinyl alcohol) films in the hydrated state. <i>Polymer</i> , 2007, 48, 3850-3857.	1.8	15
92	Effects of Macromolecular Compatibilizers Containing Epoxy Groups on the Properties of Linear Low-Density Polyethylene/Magnesium Hydroxide Composites. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6291-6301.	1.8	14
93	Improvement of the Compatibilization of High-Impact Polystyrene/Magnesium Hydroxide Composites with Partially Sulfonated Polystyrene as Macromolecular Compatibilizers. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9204-9212.	1.8	14
94	Evaluation of structural effects on the antiscalting performance of various graft cellulose-based antiscalants in RO membrane scaling control. <i>Journal of Membrane Science</i> , 2021, 620, 118893.	4.1	13
95	Enhanced reactivity of zero-valent aluminum/O ₂ by using Fe-bearing clays in 4-chlorophenol oxidation. <i>Science of the Total Environment</i> , 2021, 773, 145661.	3.9	13
96	Evaluation of hydrophobically associating cationic starch-based flocculants in sludge dewatering. <i>Scientific Reports</i> , 2021, 11, 11819.	1.6	12
97	CP/MAS ¹³ C NMR analysis of the structure and hydrogen bonding of melt-crystallized poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 11	1.8	11
98	UNDERSTANDING DIFFERENT LCST LEVELS OF POLY(N-ALKYLACRYLAMIDE)S BY MOLECULAR DYNAMICS SIMULATIONS AND QUANTUM MECHANICS CALCULATIONS. <i>Journal of Theoretical and Computational Chemistry</i> , 2011, 10, 359-370.	1.8	11
99	Single-Chain-Particles of Poly(N-isopropylacrylamide). <i>Macromolecular Rapid Communications</i> , 2002, 23, 1037-1040.	2.0	10
100	Comparison of two starch-based flocculants with polyacrylamide for the simultaneous removal of phosphorus and turbidity from simulated and actual wastewater samples in combination with FeCl ₃ . <i>International Journal of Biological Macromolecules</i> , 2021, 167, 223-232.	3.6	10
101	Synergistically enhanced activation of persulfate for efficient oxidation of organic contaminants using a microscale zero-valent aluminum/Fe-bearing clay composite. <i>Chemical Engineering Journal</i> , 2022, 433, 133682.	6.6	10
102	Chain architectures of various cellulose-based antiscalants on the inhibition of calcium carbonate scale. <i>Scientific Reports</i> , 2020, 10, 21906.	1.6	8
103	Observation of the concentric diffractive banding on the spherulites of poly(ethylene oxide) by a dynamic method. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2454-2458.	1.3	7
104	Efficient removal of fluoroquinolones antibiotics by using kaolin-tannic acid-Fe(III) composite adsorbents from water. <i>Applied Clay Science</i> , 2022, 222, 106490.	2.6	7
105	Analysis of viscosity abnormalities of polyelectrolytes in dilute solutions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 750-756.	2.0	6
106	Simple fabrication of carboxymethyl cellulose and \hat{I}° -carrageenan composite aerogel with efficient performance in removal of fluoroquinolone antibiotics from water. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, .	3.3	6
107	Investigation of the self-association behavior of a thermosensitive copolymer with lower critical solubility temperature near human heat by dynamic laser light scattering. <i>Journal of Applied Polymer Science</i> , 2005, 96, 583-588.	1.3	5
108	Preparation of the individual compact single-chain globular particulates of Poly(N-isopropylacrylamide). <i>Colloid and Polymer Science</i> , 2006, 284, 935-940.	1.0	5

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109	Influences of charge properties and hydrophobicity on the coagulation of inorganic and organic matters from water associated with starch-based coagulants. <i>Chemosphere</i> , 2022, 298, 134346.	4.2	5
110	Application of time-temperature superposition principle to polymer transition kinetics. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1767-1772.	1.3	4
111	Composition determination of binary polymer mixtures by size exclusion chromatography with light scattering detection. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010, 28, 291-297.	2.0	4
112	Coagulation Properties of Biodegradable Chitosan-CTA Coagulants in Turbidity Removal. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1123-1127.	0.7	4
113	Study on the interfacial properties of viscous capillary flow of dilute acetic acid solutions of chitosan. <i>Carbohydrate Polymers</i> , 2009, 78, 488-491.	5.1	3
114	Investigation on the response factors of concentration detectors within sec process. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 203-213.	2.0	2
115	Enhanced, rapid, and selective adsorption behaviors of a porous chitosan-based adsorbent. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 284-293.	1.1	2
116	ANALYSIS OF THE COMPOSITION OF COMPLICATED BINARY MIXTURE BY QUANTITATIVE SEC. <i>Acta Polymerica Sinica</i> , 2009, 007, 689-692.	0.0	1
117	New Observation on Morphology of a Thermotropic Liquid Crystalline Polyesterimide Crystallized at High Temperature. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 325-334.	0.4	0
118	Analysis of composition complicated binary mixture by quantitative SEC. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2008, 3, 344-347.	0.4	0
119	Exploring Techniques For Sludge Disposal. , 2018, , .		0
120	Evaluating Structural Morphology And Scale Inhibition Of Starch-Graft-Poly(Acrylic Acid). , 2018, , .		0
121	é,¶ä»·é“/é“é¥±â'CEâ†+â†,æ£'ââ^ææ—™æ»âCE—æ°SâCE—â%,é™èS£4-æ°é...šçš,,ç”ç©¶. <i>Scientia Sinica Chimica</i> , 2022, , .		0