

# Hongru Jiang

## List of Publications by Year in descending order

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18  
papers

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citations

687220

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839398

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docs citations

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times ranked

178  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of control and removal strategies for microplastics from aquatic environments. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105463.	3.3	70
2	Separation of hazardous polyvinyl chloride from waste plastics by flotation assisted with surface modification of ammonium persulfate: Process and mechanism. <i>Journal of Hazardous Materials</i> , 2020, 389, 121918.	6.5	47
3	Is it possible to efficiently and sustainably remove microplastics from sediments using froth flotation?. <i>Chemical Engineering Journal</i> , 2022, 448, 137692.	6.6	47
4	Surface Reactions in Selective Modification: The Prerequisite for Plastic Flotation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9742-9756.	4.6	32
5	Green flotation of polyethylene terephthalate and polyvinyl chloride assisted by surface modification of selective CaCO <sub>3</sub> coating. <i>Journal of Cleaner Production</i> , 2020, 242, 118441.	4.6	31
6	Adsorption of rhodamine B on polyvinyl chloride, polystyrene, and polyethylene terephthalate microplastics in aqueous environments. <i>Environmental Technology and Innovation</i> , 2022, 27, 102495.	3.0	30
7	Is froth flotation a potential scheme for microplastics removal? Analysis on flotation kinetics and surface characteristics. <i>Science of the Total Environment</i> , 2021, 792, 148345.	3.9	28
8	Unique metalloid uptake on microplastics: The interaction between boron and microplastics in aquatic environment. <i>Science of the Total Environment</i> , 2021, 800, 149668.	3.9	26
9	Insight into the effect of aqueous species on microplastics removal by froth flotation: Kinetics and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107834.	3.3	21
10	Flotation separation of acrylonitrile-butadiene-styrene and polystyrene in WEEE based on oxidation of active sites. <i>Minerals Engineering</i> , 2020, 146, 106131.	1.8	20
11	Boron accumulation by <i>Lemna minor</i> L. under salt stress. <i>Scientific Reports</i> , 2018, 8, 8954.	1.6	18
12	Flotation separation of polystyrene and polyvinyl chloride based on heterogeneous catalytic Fenton and green synthesis of nanoscale zero valent iron (GnZVI). <i>Journal of Cleaner Production</i> , 2020, 267, 122116.	4.6	16
13	Hydrophilic modification of polycarbonate surface with surface alkoxylation pretreatment for efficient separation of polycarbonate and polystyrene by froth flotation. <i>Waste Management</i> , 2020, 118, 471-480.	3.7	15
14	Flotation separation of hazardous polyvinyl chloride towards source control of microplastics based on selective hydrophilization of plasticizer-doping surfaces. <i>Journal of Hazardous Materials</i> , 2022, 423, 127095.	6.5	13
15	Stepwise flotation separation of WEEE plastics by polymeric aluminum chloride towards source control of microplastics. <i>Waste Management</i> , 2022, 149, 1-10.	3.7	12
16	A clean and efficient flotation towards recovery of hazardous polyvinyl chloride and polycarbonate microplastics through selective aluminum coating: Process, mechanism, and optimization. <i>Journal of Environmental Management</i> , 2021, 299, 113626.	3.8	11
17	Surface alcoholysis induced by alkali-activation ethanol: A novel scheme for binary flotation of polyethylene terephthalate from other plastics. <i>Journal of Cleaner Production</i> , 2021, 314, 128096.	4.6	9
18	Surface treatment with peroxymonosulfate for flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene: Optimization and mechanism. <i>Journal of Cleaner Production</i> , 2020, 275, 124158.	4.6	7