

# Jiadong Liu

## List of Publications by Year in descending order

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49  
papers

1,676  
citations

331538

21  
h-index

289141

40  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Minute electric field reduced membrane fouling and improved performance of membrane bioreactor. Separation and Purification Technology, 2012, 86, 106-112.	3.9	124
2	Identification of intermediates and transformation pathways derived from photocatalytic degradation of five antibiotics on ZnIn <sub>2</sub> S <sub>4</sub> . Chemical Engineering Journal, 2016, 304, 826-840.	6.6	121
3	Photocatalytic degradation of 2,4,6-tribromophenol over Fe-doped ZnIn <sub>2</sub> S <sub>4</sub> : Stable activity and enhanced debromination. Applied Catalysis B: Environmental, 2013, 129, 89-97.	10.8	108
4	Fouling reductions in a membrane bioreactor using an intermittent electric field and cathodic membrane modified by vapor phase polymerized pyrrole. Journal of Membrane Science, 2012, 394-395, 202-208.	4.1	103
5	Integration of bio-electrochemical cell in membrane bioreactor for membrane cathode fouling reduction through electricity generation. Journal of Membrane Science, 2013, 430, 196-202.	4.1	99
6	Preparation of highly conductive cathodic membrane with graphene (oxide)/PPy and the membrane antifouling property in filtrating yeast suspensions in EMBR. Journal of Membrane Science, 2013, 437, 99-107.	4.1	99
7	Hydraulic power and electric field combined antifouling effect of a novel conductive poly(aminoanthraquinone)/reduced graphene oxide nanohybrid blended PVDF ultrafiltration membrane. Journal of Materials Chemistry A, 2015, 3, 20277-20287.	5.2	68
8	Conductive and hydrophilic polypyrrole modified membrane cathodes and fouling reduction in MBR. Journal of Membrane Science, 2013, 429, 252-258.	4.1	61
9	Cathode membrane fouling reduction and sludge property in membrane bioreactor integrating electrocoagulation and electrostatic repulsion. Separation and Purification Technology, 2012, 100, 44-50.	3.9	57
10	Synergistic mechanism of Cu-Mn-Ce oxides in mesoporous ceramic base catalyst for VOCs microwave catalytic combustion. Chemical Engineering Journal, 2022, 429, 132302.	6.6	56
11	The degradation of methyl orange and membrane fouling behavior in anaerobic baffled membrane bioreactor. Chemical Engineering Journal, 2018, 338, 719-725.	6.6	55
12	Photocatalytic oxidation of trace carbamazepine in aqueous solution by visible-light-driven ZnIn <sub>2</sub> S <sub>4</sub> : Performance and mechanism. Journal of Environmental Management, 2017, 190, 259-265.	3.8	54
13	Polypyrrole blending modification for PVDF conductive membrane preparing and fouling mitigation. Journal of Colloid and Interface Science, 2017, 494, 124-129.	5.0	53
14	Integration of microbial fuel cell with independent membrane cathode bioreactor for power generation, membrane fouling mitigation and wastewater treatment. International Journal of Hydrogen Energy, 2014, 39, 17865-17872.	3.8	52
15	Photocatalytic degradation of 2,4,6-tribromophenol on Fe <sub>2</sub> O <sub>3</sub> or FeOOH doped ZnIn <sub>2</sub> S <sub>4</sub> heterostructure: Insight into degradation mechanism. Applied Catalysis B: Environmental, 2014, 147, 929-939.	10.8	51
16	Polypyrrole/ZnIn <sub>2</sub> S <sub>4</sub> composite photocatalyst for enhanced mineralization of chloramphenicol under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 349, 115-123.	2.0	36
17	PPy/AQS (9, 10-anthraquinone-2-sulfonic acid) and PPy/ARS (Alizarin Red's) modified stainless steel mesh as cathode membrane in an integrated MBR/MFC system. Desalination, 2014, 349, 94-101.	4.0	34
18	Ozone direct oxidation pretreatment and catalytic oxidation post-treatment coupled with ABMBR for landfill leachate treatment. Science of the Total Environment, 2021, 794, 148557.	3.9	33

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19	Continuous removal of tetracycline in a photocatalytic membrane reactor (PMR) with ZnIn <sub>2</sub> S <sub>4</sub> as adsorption and photocatalytic coating layer on PVDF membrane. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 732-739.	2.0	31
20	A photo-catalysis and rotating nano-CaCO <sub>3</sub> dynamic membrane system with Fe-ZnIn <sub>2</sub> S <sub>4</sub> efficiently removes halogenated compounds in water. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 62-69.	10.8	26
21	Streaming potential for identification of foulants adsorption on PVDF membrane surface. <i>Journal of Membrane Science</i> , 2018, 566, 428-434.	4.1	25
22	The brewery wastewater treatment and membrane fouling mitigation strategies in anaerobic baffled anaerobic/aerobic membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2017, 127, 53-59.	1.8	22
23	Direct current stimulation of <i>Thiobacillus ferrooxidans</i> bacterial metabolism in a bioelectrical reactor without cation-specific membrane. <i>Bioresource Technology</i> , 2010, 101, 6035-6038.	4.8	21
24	Poly (3, 4-ethylenedioxythiophene) modified polyvinylidene fluoride membrane for visible photoelectrocatalysis and filtration. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 220-227.	5.0	21
25	Functional photoelectrocatalytic membrane fabricated from ZnIn <sub>2</sub> S <sub>4</sub> , PVDF and carbon fibre for continuous removal of tetracycline. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121525.	1.4	21
26	Rotating a helical membrane for turbulence enhancement and fouling reduction. <i>Chemical Engineering Journal</i> , 2012, 181-182, 486-493.	6.6	20
27	Polypyrrole vapor phase polymerization on PVDF membrane surface for conductive membrane preparation and fouling mitigation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 683-689.	1.6	20
28	Phosphate substances transformation and vivianite formation in P-Fe containing sludge during the transition process of aerobic and anaerobic conditions. <i>Bioresource Technology</i> , 2021, 319, 124259.	4.8	19
29	Landfill leachate treatment in-depth by bio-chemical strategy: microbial activation and catalytic ozonation mechanism. <i>Chemical Engineering Journal</i> , 2022, 444, 136464.	6.6	19
30	Cu-Mn-CeO <sub>x</sub> loaded ceramic catalyst for non-thermal sterilization and microwave thermal catalysis of VOCs degradation. <i>Chemical Engineering Journal</i> , 2022, 442, 136288.	6.6	18
31	Membrane fouling behavior in anaerobic baffled membrane bioreactor under static operating condition. <i>Bioresource Technology</i> , 2016, 214, 582-588.	4.8	16
32	Insights into the influence and mechanism for the protogenetic N, P and Fe containing biochar on peroxymonosulfate activation. <i>Journal of Cleaner Production</i> , 2021, 328, 129642.	4.6	15
33	PVDF layer as a separator on the solution-side of air-cathodes: the electricity generation, fouling and regeneration. <i>RSC Advances</i> , 2015, 5, 52361-52368.	1.7	13
34	PEDOT surface modified PVDF filtration membrane for conductive membrane preparation and fouling mitigation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105212.	3.3	13
35	PEDOT:PSS decorated ZnIn <sub>2</sub> S <sub>4</sub> for reduced recombination of photogenerated electron-hole pairs. <i>Materials Letters</i> , 2018, 224, 64-66.	1.3	12
36	Organic photoelectrocatalytic filtration membrane originated from PEDOT modified PVDF. <i>Chemical Engineering Journal</i> , 2021, 405, 126954.	6.6	12

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37	Effect of electrocoagulation on MBR under different power supply conditions. <i>Biochemical Engineering Journal</i> , 2019, 152, 107371.	1.8	8
38	The filtration and degradation mechanism of toluene via microwave thermo-catalysis ceramic membrane. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105105.	3.3	8
39	The tubular MFC with carbon tube air-cathode for power generation and <i>N,N</i> -dimethylacetamide treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 762-767.	1.2	7
40	Ammonium persulphate as novel additive for filtration performance improvement of PVDF microporous membrane. <i>Separation and Purification Technology</i> , 2016, 165, 78-85.	3.9	6
41	Photocatalytic Oxidation of Gaseous Toluene by Visible-Light-Driven CoCuMnO <sub>x</sub> : Performance and Mechanism. <i>Catalysis Letters</i> , 2017, 147, 1623-1630.	1.4	6
42	Assemble a new functional PEDOT-ZIS electrode for sustainable and efficient treatment of wastewater in photoelectrocatalytic system. <i>Journal of Water Process Engineering</i> , 2020, 37, 101513.	2.6	6
43	The photoelectrocatalytic performance of ZnIn <sub>2</sub> S <sub>4</sub> nanosheets and microspheres grown on flexible graphite felt. <i>Journal of Electroanalytical Chemistry</i> , 2019, 845, 144-153.	1.9	5
44	Anaerobic offsite Fe <sup>2+</sup> releasing for electrocoagulation in ABMBR: Membrane fouling mitigation, nutrients removal and anodes protection. <i>Journal of Water Process Engineering</i> , 2021, 39, 101706.	2.6	5
45	Synergistic degradation of organic pollutants by poly (3,4-ethylenedioxythiophene) based photo-electrocatalysis. <i>Journal of Water Process Engineering</i> , 2022, 45, 102494.	2.6	5
46	Photoelectrocatalytic mechanism of PEDOT modified filtration membrane. <i>Science of the Total Environment</i> , 2022, 813, 152397.	3.9	5
47	The competitive adsorption of pharmaceuticals on granular activated carbon in secondary effluent. <i>Desalination and Water Treatment</i> , 0, , 1-7.	1.0	3
48	A fluorescence spectroscopy study of traditional Chinese medicine Angelica. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2013, 115, 530-536.	0.2	2
49	The stability of poly (3, 4-ethylenedioxythiophene) based on electrochemical polymerization and photoelectro-corrosion conditions. <i>Polymer Degradation and Stability</i> , 2022, 198, 109881.	2.7	1