

# Xiaoyan He

## List of Publications by Year in descending order

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37  
papers

670  
citations

516710

16  
h-index

580821

25  
g-index

37  
all docs

37  
docs citations

37  
times ranked

670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mg <sup>2+</sup> /Ca <sup>2+</sup> promotes the adhesion of marine bacteria and algae and enhances following biofilm formation in artificial seawater. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 289-295.	5.0	64
2	Autoclaving-induced in-situ grown hierarchical structures for construction of superhydrophobic surfaces: A new route to fabricate antifouling coatings. <i>Surface and Coatings Technology</i> , 2019, 357, 180-188.	4.8	50
3	Haloperoxidase Mimicry by CeO <sub>2</sub> Nanorods of Different Aspect Ratios for Antibacterial Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6744-6752.	6.7	50
4	Infused configurations induced by structures influence stability and antifouling performance of biomimetic lubricant-infused surfaces. <i>Surface and Coatings Technology</i> , 2019, 358, 159-166.	4.8	40
5	Preparation of Superhydrophobic Steel Surfaces with Chemical Stability and Corrosion. <i>Coatings</i> , 2019, 9, 398.	2.6	35
6	Modification of a derived antimicrobial peptide on steel surface for marine bacterial resistance. <i>Applied Surface Science</i> , 2020, 510, 145512.	6.1	31
7	Electrochemical corrosion behaviors and mechanism of carbon steel in the presence of acid-producing bacterium <i>Citrobacter farmeri</i> in artificial seawater. <i>International Biodeterioration and Biodegradation</i> , 2020, 147, 104872.	3.9	24
8	Single-stranded structure of alginate and its conformation evolvement after an interaction with calcium ions as revealed by electron microscopy. <i>RSC Advances</i> , 2016, 6, 114779-114782.	3.6	23
9	Functionalizing aluminum substrata by quaternary ammonium for antifouling performances. <i>Applied Surface Science</i> , 2018, 440, 300-307.	6.1	23
10	Covalent bonding of AgNPs to 304 stainless steel by reduction in situ for antifouling applications. <i>Applied Surface Science</i> , 2018, 452, 201-209.	6.1	23
11	Facile fabrication of fluorine-free slippery lubricant-infused cerium stearate surfaces for marine antifouling and anticorrosion application. <i>Surface and Coatings Technology</i> , 2021, 415, 127136.	4.8	23
12	Adsorption of alginate and albumin on aluminum coatings inhibits adhesion of <i>Escherichia coli</i> and enhances the anti-corrosion performances of the coatings. <i>Applied Surface Science</i> , 2015, 332, 89-96.	6.1	22
13	A biofilm resistance surface yielded by grafting of antimicrobial peptides on stainless steel surface. <i>Surface and Interface Analysis</i> , 2018, 50, 516-521.	1.8	21
14	Antifouling performance analysis of peptide-modified glass microstructural surfaces. <i>Applied Surface Science</i> , 2021, 541, 148384.	6.1	21
15	The impact of hydrodynamic shear force on adhesion morphology and biofilm conformation of <i>Bacillus sp.</i> . <i>Ocean Engineering</i> , 2020, 197, 106860.	4.3	20
16	Fabrication of biomimetic slippery liquid-infused porous surface on 5086 aluminum alloy with excellent antifouling performance. <i>Surface and Interface Analysis</i> , 2021, 53, 147-155.	1.8	17
17	Polyacrylamide strengthened mixed-charge hydrogels and their applications in resistance to protein adsorption and algae attachment. <i>RSC Advances</i> , 2016, 6, 47349-47356.	3.6	16
18	Alginate/albumin in incubation solution mediates the adhesion and biofilm formation of typical marine bacteria and algae. <i>Biochemical Engineering Journal</i> , 2018, 139, 25-32.	3.6	16

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19	Autoclaving-induced in-situ grown alumina on arc-sprayed aluminum coatings: Multiscaled topography facilitates antifouling performances. <i>Surface and Coatings Technology</i> , 2017, 309, 295-300.	4.8	15
20	Participation of copper ions in formation of alginate conditioning layer: Evolved structure and regulated microbial adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 220-227.	5.0	15
21	Biomimetic lubricant-infused titania nanoparticle surfaces via layer-by-layer deposition to control biofouling. <i>Applied Surface Science</i> , 2020, 515, 146064.	6.1	15
22	Lubricant-infused titania surfaces with high underwater transparency for antifouling applications: A combined experimental and molecular dynamics study. <i>Applied Surface Science</i> , 2021, 543, 148848.	6.1	15
23	Suspension Plasma Spray Fabrication of Nanocrystalline Titania Hollow Microspheres for Photocatalytic Applications. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 1213-1220.	3.1	13
24	Role of trapped air and lubricant in the interactions between fouling and SiO <sub>2</sub> nanoparticle surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110502.	5.0	12
25	Peptide-modified stainless steel with resistance capacity of <i>Staphylococcus aureus</i> biofilm formation. <i>Surface and Interface Analysis</i> , 2018, 50, 1362-1369.	1.8	11
26	Surface topography effects on the wettability and antifouling performance of nano-ZnO epoxy composite coatings. <i>Surface and Coatings Technology</i> , 2022, 433, 128145.	4.8	11
27	Electron Microscopy Visualization of Vitronectin Adsorbed on -COOH and -NH <sub>2</sub> Functionalized Surfaces: Distinctive Spatial Alignment and Regulated Cellular Responses. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700958.	3.7	10
28	Experimental and molecular dynamics simulation study of chemically stable superhydrophobic surfaces. <i>Surface and Coatings Technology</i> , 2021, 418, 127236.	4.8	9
29	Tribocorrosion behaviours of cold-sprayed diamond-Cu composite coatings in artificial sea water. <i>Surface Engineering</i> , 2018, 34, 392-398.	2.2	6
30	Hollow Plasma-Sprayed Spherical Nanostructured Titania Feedstock for Photocatalytic Applications. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1532-1541.	3.1	4
31	Adsorption-associated orientational changes of immunoglobulin G and regulated phagocytosis of <i>Staphylococcus epidermidis</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2838-2849.	4.0	4
32	Corrosion behaviors of carbon steel induced by life activities of <i>Phaeodactylum tricornutum</i> in a marine environment. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1065-1075.	1.5	4
33	Molecular dynamics simulation of peptide attachment on Al-based surfaces. <i>Progress in Organic Coatings</i> , 2021, 157, 106310.	3.9	3
34	Effects of chemical composition on the hydrophobicity and antifouling performance of epoxy-based self-stratifying nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2022, 167, 106827.	3.9	3
35	Study on Biomimetic Antifouling Surface Preparation based on Surface Microstructure of Crabs. , 2019, , .		1
36	Construction of superhydrophobic surfaces for antifouling and drag reduction applications. , 2019, , .		0

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37	Stable oral lubrication enhancer obtained from thiolated polyethylene glycol and mucin. Friction, 2023, 11, 617-634.	6.4	0