Jinyang Li

List of Publications by Year in descending order

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32 papers	653 citations	623734 14 h-index	610901 24 g-index
33 all docs	33 docs citations	33 times ranked	950 citing authors

#	Article	IF	Citations
1	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. Biomaterials, 2018, 162, 109-122.	11.4	72
2	Biospecific Selfâ€Assembly of a Nanoparticle Coating for Targeted and Stimuliâ€Responsive Drug Delivery. Advanced Functional Materials, 2015, 25, 1404-1417.	14.9	50
3	Electrobiofabrication: electrically based fabrication with biologically derived materials. Biofabrication, 2019, 11, 032002.	7.1	43
4	Connecting Biology to Electronics: Molecular Communication via Redox Modality. Advanced Healthcare Materials, 2017, 6, 1700789.	7.6	40
5	Redox Is a Global Biodevice Information Processing Modality. Proceedings of the IEEE, 2019, 107, 1402-1424.	21.3	37
6	Reverse Engineering To Characterize Redox Properties: Revealing Melaninâ€™s Redox Activity through Mediated Electrochemical Probing. Chemistry of Materials, 2018, 30, 5814-5826.	6.7	36
7	Radical Scavenging Activities of Biomimetic Catechol-Chitosan Films. Biomacromolecules, 2018, 19, 3502-3514.	5.4	34
8	Electrochemical reverse engineering: A systems-level tool to probe the redox-based molecular communication of biology. Free Radical Biology and Medicine, 2017, 105, 110-131.	2.9	32
9	Catechol-Based Capacitor for Redox-Linked Bioelectronics. ACS Applied Electronic Materials, 2019, 1, 1337-1347.	4.3	26
10	Hierarchical patterning via dynamic sacrificial printing of stimuli-responsive hydrogels. Biofabrication, 2020, 12, 035007.	7.1	25
11	Hydrogel Patterning with Catechol Enables Networked Electron Flow. Advanced Functional Materials, 2021, 31, 2007709.	14.9	24
12	Mediated electrochemistry for redox-based biological targeting: entangling sensing and actuation for maximizing information transfer. Current Opinion in Biotechnology, 2021, 71, 137-144.	6.6	19
13	Template size matched film thickness for effectively in situ surface imprinting: a model study of glycoprotein imprints. RSC Advances, 2015, 5, 47010-47021.	3.6	18
14	Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. Advanced Functional Materials, 2020, 30, 2001776.	14.9	17
15	Electrochemistry for bio-device molecular communication: The potential to characterize, analyze and actuate biological systems. Nano Communication Networks, 2017, 11, 76-89.	2.9	15
16	Electrical cuing of chitosan's mesoscale organization. Reactive and Functional Polymers, 2020, 148, 104492.	4.1	15
17	Biofabricating Functional Soft Matter Using Protein Engineering to Enable Enzymatic Assembly. Bioconjugate Chemistry, 2018, 29, 1809-1822.	3.6	14
18	Coupling Self-Assembly Mechanisms to Fabricate Molecularly and Electrically Responsive Films. Biomacromolecules, 2019, 20, 969-978.	5.4	14

#	Article	IF	Citations
19	Catecholâ€Based Molecular Memory Film for Redox Linked Bioelectronics. Advanced Electronic Materials, 2020, 6, 2000452.	5.1	14
20	Interactive Materials for Bidirectional Redoxâ€Based Communication. Advanced Materials, 2021, 33, e2007758.	21.0	14
21	Biofabricated Nanoparticle Coating for Liverâ€Cell Targeting. Advanced Healthcare Materials, 2015, 4, 1972-1981.	7.6	13
22	Mediated Electrochemical Probing: A Systems-Level Tool for Redox Biology. ACS Chemical Biology, 2021, 16, 1099-1110.	3.4	13
23	Reversibly Reconfigurable Cross-Linking Induces Fusion of Separate Chitosan Hydrogel Films. ACS Applied Bio Materials, 2018, 1, 1695-1704.	4.6	12
24	The Analgesic Acetaminophen and the Antipsychotic Clozapine Can Each Redox-Cycle with Melanin. ACS Chemical Neuroscience, 2017, 8, 2766-2777.	3.5	11
25	Recovery and separation of erythromycin from industrial wastewater by imprinted magnetic nanoparticles that exploit Î²â€cyclodextrin as the functional monomer. Journal of Separation Science, 2016, 39, 450-459.	2.5	9
26	Simple, rapidly electroassembled thiolated PEGâ€based sensor interfaces enable rapid interrogation of antibody titer and glycosylation. Biotechnology and Bioengineering, 2021, 118, 2744-2758.	3.3	8
27	Catechol Patterned Film Enables the Enzymatic Detection of Glucose with Cell Phone Imaging. ACS Sustainable Chemistry and Engineering, 2021, 9, 14836-14845.	6.7	7
28	Effect of the solvent on improving the recognition properties of surface molecularly imprinted polymers for precise separation of erythromycin. RSC Advances, 2015, 5, 83619-83627.	3.6	6
29	A Redox-Based Autoinduction Strategy to Facilitate Expression of 5xCys-Tagged Proteins for Electrobiofabrication. Frontiers in Microbiology, 2021, 12, 675729.	3.5	5
30	Network-based redox communication between abiotic interactive materials. IScience, 2022, 25, 104548.	4.1	4
31	Orthogonal Redox and Optical Stimuli Can Induce Independent Responses for Catechol-Chitosan Films. Materials Chemistry Frontiers, 0, , .	5.9	3
32	Redox: Electron-Based Approach to Bio-Device Molecular Communication. , 2018, , .		2