Eunkyoung Kim

List of Publications by Year
in descending order

153 papers	7,554 citations	53939 47 h-index	73587 79 g-index
155 all docs	155 docs citations	155 times ranked	7869 citing authors

#	Article	IF	Citations
1	Biofabrication with Chitosan. Biomacromolecules, 2005, 6, 2881-2894.	2.6	667
2	Enzyme-catalyzed gel formation of gelatin and chitosan: potential for in situ applications. Biomaterials, 2003, 24, 2831-2841.	5.7	324
3	Voltage-Dependent Assembly of the Polysaccharide Chitosan onto an Electrode Surface. Langmuir, 2002, 18, 8620-8625.	1.6	283
4	Chitosan Based Water-Resistant Adhesive. Analogy to Mussel Glue. Biomacromolecules, 2000, 1, 252-258.	2.6	198
5	Electrochemically Induced Deposition of a Polysaccharide Hydrogel onto a Patterned Surface. Langmuir, 2003, 19, 4058-4062.	1.6	184
6	In vitro protein-polysaccharide conjugation: Tyrosinase-catalyzed conjugation of gelatin and chitosan. Biopolymers, 2002, 64, 292-302.	1.2	176
7	Mechanical Properties of Biomimetic Tissue Adhesive Based on the Microbial Transglutaminase-Catalyzed Crosslinking of Gelatin. Biomacromolecules, 2004, 5, 1270-1279.	2.6	164
8	In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. Soft Matter, 2010, 6, 3177.	1.2	150
9	Role of polydopamineâ€™s redox-activity on its pro-oxidant, radical-scavenging, and antimicrobial activities. Acta Biomaterialia, 2019, 88, 181-196.	4.1	137
10	Electronic control of gene expression and cell behaviour in Escherichia coli through redox signalling. Nature Communications, 2017, 8, 14030.	5.8	120
11	Electroaddressing of Cell Populations by Coâ€Deposition with Calcium Alginate Hydrogels. Advanced Functional Materials, 2009, 19, 2074-2080.	7.8	115
12	Chitosan: a soft interconnect for hierarchical assembly of nano-scale components. Soft Matter, 2007, 3, 521.	1.2	113
13	Biomimetic Approach to Confer Redox Activity to Thin Chitosan Films. Advanced Functional Materials, 2010, 20, 2683-2694.	7.8	109
14	Biofabrication: using biological materials and biocatalysts to construct nanostructured assemblies. Trends in Biotechnology, 2004, 22, 593-599.	4.9	108
15	Nature-Inspired Creation of Proteinâ˘Polysaccharide Conjugate and Its Subsequent Assembly onto a Patterned Surface. Langmuir, 2003, 19, 9382-9386.	1.6	102
16	Biofabrication to build the biologyâ€“device interface. Biofabrication, 2010, 2, 022002.	3.7	94
17	pH-Responsive Self-Assembly of Polysaccharide through a Rugged Energy Landscape. Journal of the American Chemical Society, 2015, 137, 13024-13030.	6.6	89
18	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. Polymers, 2015, 7, 1-46.	2.0	87

#	Article	IF	Citations
19	Amplified and in Situ Detection of Redox-Active Metabolite Using a Biobased Redox Capacitor. Analytical Chemistry, 2013, 85, 2102-2108.	3.2	86
20	Coupling Electrodeposition with Layerâ€byâ€Layer Assembly to Address Proteins within Microfluidic Channels. Advanced Materials, 2011, 23, 5817-5821.	11.1	83
21	Electrodeposition of a Biopolymeric Hydrogel: Potential for One-Step Protein Electroaddressing. Biomacromolecules, 2012, 13, 1181-1189.	2.6	82
22	Enzymatic Grafting of Peptides from Casein Hydrolysate to Chitosan. Potential for Value-Added Byproducts from Food-Processing Wastes. Journal of Agricultural and Food Chemistry, 2004, 52, 788-793.	2.4	77
23	Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. Journal of Materials Chemistry, 2012, 22, 7659.	6.7	75
24	Enzymatic Methods for in Situ Cell Entrapment and Cell Release. Biomacromolecules, 2003, 4, 1558-1563.	2.6	73
25	Gelatin-based biomimetic tissue adhesive. Potential for retinal reattachment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 416-422.	1.6	72
26	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. Biomaterials, 2018, 162, 109-122.	5.7	72
27	Redox-capacitor to connect electrochemistry to redox-biology. Analyst, The, 2014, 139, 32-43.	1.7	71
28	Context-Dependent Redox Properties of Natural Phenolic Materials. Biomacromolecules, 2014, 15, 1653-1662.	2.6	71
29	Chitosan-mediated in situ biomolecule assembly in completely packaged microfluidic devices. Lab on A Chip, 2006, 6, 1315.	3.1	68
30	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. Lab on A Chip, 2011, 11, 2316.	3.1	68
31	Reverse Engineering Applied to Red Human Hair Pheomelanin Reveals Redox-Buffering as a Pro-Oxidant Mechanism. Scientific Reports, 2015, 5, 18447.	1.6	67
32	Redox-Channeling Polydopamine-Ferrocene (PDA-Fc) Coating To Confer Context-Dependent and Photothermal Antimicrobial Activities. ACS Applied Materials & Interfaces, 2020, 12, 8915-8928.	4.0	67
33	Coding for hydrogel organization through signal guided self-assembly. Soft Matter, 2014, 10, 465-469.	1.2	66
34	Redox Capacitor to Establish Bioâ€Device Redoxâ€Connectivity. Advanced Functional Materials, 2012, 22, 1409-1416.	7.8	65
35	Autonomous bacterial localization and gene expression based on nearby cell receptor density. Molecular Systems Biology, 2013, 9, 636.	3.2	65
36	Utilizing Renewable Resources To Create Functional Polymers:Â Chitosan-Based Associative Thickener. Environmental Science & Technology, 2002, 36, 3446-3454.	4.6	64

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37	Spectroelectrochemical Reverse Engineering DemonstratesThat Melaninâ€™s Redox and Radical Scavenging Activities Are Linked. Biomacromolecules, 2017, 18, 4084-4098.	2.6	63
38	Biomimetic sealant based on gelatin and microbial transglutaminase: An initial <i>in vivo</i> investigation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 5-16.	1.6	61
39	Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. Soft Matter, 2013, 9, 2703.	1.2	59
40	Programmable Electrofabrication of Porous Janus Films with Tunable Janus Balance for Anisotropic Cell Guidance and Tissue Regeneration. Advanced Functional Materials, 2019, 29, 1900065.	7.8	58
41	Bioelectronic control of a microbial community using surface-assembled electrogenetic cells to route signals. Nature Nanotechnology, 2021, 16, 688-697.	15.6	56
42	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuliâ€Responsive Materials. Advanced Functional Materials, 2012, 22, 3004-3012.	7.8	54
43	Programmable assembly of a metabolic pathway enzyme in a pre-packaged reusable bioMEMS device. Lab on A Chip, 2008, 8, 420.	3.1	53
44	Redox-Cycling and H₂O₂ Generation by Fabricated Catecholic Films in the Absence of Enzymes. Biomacromolecules, 2011, 12, 880-888.	2.6	53
45	A Structureâ˘'Permeability Relationship of Ultrathin Nanoporous Silicon Membrane:â€‰ A Comparison with the Nuclear Envelope. Journal of the American Chemical Society, 2008, 130, 4230-4231.	6.6	52
46	Electronic modulation of biochemical signal generation. Nature Nanotechnology, 2014, 9, 605-610.	15.6	52
47	Biomimetic fabrication of information-rich phenolic-chitosan films. Soft Matter, 2011, 7, 9601.	1.2	51
48	Tyrosine-based â€œActivatable Pro-Tagâ€: Enzyme-catalyzed protein capture and release. Biotechnology and Bioengineering, 2006, 93, 1207-1215.	1.7	50
49	pH- and Voltage-Responsive Chitosan Hydrogel through Covalent Cross-Linking with Catechol. Journal of Physical Chemistry B, 2012, 116, 1579-1585.	1.2	50
50	Biospecific Selfâ€Assembly of a Nanoparticle Coating for Targeted and Stimuliâ€Responsive Drug Delivery. Advanced Functional Materials, 2015, 25, 1404-1417.	7.8	50
51	Electro-molecular Assembly: Electrical Writing of Information into an Erasable Polysaccharide Medium. ACS Applied Materials & Interfaces, 2016, 8, 19780-19786.	4.0	49
52	Signal-Directed Sequential Assembly of Biomolecules on Patterned Surfaces. Langmuir, 2005, 21, 2104-2107.	1.6	46
53	Chitosan-Coated Wires: Conferring Electrical Properties to Chitosan Fibers. Biomacromolecules, 2009, 10, 858-864.	2.6	46
54	Tyrosinase-mediated grafting and crosslinking of natural phenols confers functional properties to chitosan. Biochemical Engineering Journal, 2014, 89, 21-27.	1.8	46

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55	Reversible Programing of Soft Matter with Reconfigurable Mechanical Properties. Advanced Functional Materials, 2017, 27, 1605665.	7.8	46
56	Redox Probing for Chemical Information of Oxidative Stress. Analytical Chemistry, 2017, 89, 1583-1592.	3.2	46
57	Electrical Programming of Soft Matter: Using Temporally Varying Electrical Inputs To Spatially Control Self Assembly. Biomacromolecules, 2018, 19, 364-373.	2.6	46
58	A redox-based electrogenetic CRISPR system to connect with and control biological information networks. Nature Communications, 2020, 11, 2427.	5.8	46
59	Melanin Produced by the Fast-Growing Marine Bacterium Vibrio natriegens through Heterologous Biosynthesis: Characterization and Application. Applied and Environmental Microbiology, 2020, 86, .	1.4	45
60	Reverse Engineering To Suggest Biologically Relevant Redox Activities of Phenolic Materials. ACS Chemical Biology, 2013, 8, 716-724.	1.6	44
61	Electrochemical Measurement of the Î²-Galactosidase Reporter from Live Cells: A Comparison to the Miller Assay. ACS Synthetic Biology, 2016, 5, 28-35.	1.9	44
62	Using a Redox Modality to Connect Synthetic Biology to Electronics: Hydrogelâ€Based Chemoâ€Electro Signal Transduction for Molecular Communication. Advanced Healthcare Materials, 2017, 6, 1600908.	3.9	44
63	Electrobiofabrication: electrically based fabrication with biologically derived materials. Biofabrication, 2019, 11, 032002.	3.7	43
64	Reversible Electroaddressing of Selfâ€assembling Aminoâ€Acid Conjugates. Advanced Functional Materials, 2011, 21, 1575-1580.	7.8	42
65	Connecting Biology to Electronics: Molecular Communication via Redox Modality. Advanced Healthcare Materials, 2017, 6, 1700789.	3.9	40
66	Redox Is a Global Biodevice Information Processing Modality. Proceedings of the IEEE, 2019, 107, 1402-1424.	16.4	37
67	Inâ€Film Bioprocessing and Immunoanalysis with Electroaddressable Stimuliâ€Responsive Polysaccharides. Advanced Functional Materials, 2010, 20, 1645-1652.	7.8	36
68	Redox cycling-based amplifying electrochemical sensor for in situ clozapine antipsychotic treatment monitoring. Electrochimica Acta, 2014, 130, 497-503.	2.6	36
69	Reverse Engineering To Characterize Redox Properties: Revealing Melaninâ€™s Redox Activity through Mediated Electrochemical Probing. Chemistry of Materials, 2018, 30, 5814-5826.	3.2	36
70	Toward Understanding the Environmental Control of Hydrogel Film Properties: How Salt Modulates the Flexibility of Chitosan Chains. Macromolecules, 2017, 50, 5946-5952.	2.2	35
71	Radical Scavenging Activities of Biomimetic Catechol-Chitosan Films. Biomacromolecules, 2018, 19, 3502-3514.	2.6	34
72	Information processing through a bio-based redox capacitor: Signatures for redox-cycling. Bioelectrochemistry, 2014, 98, 94-102.	2.4	33

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73	Reliable clinical serum analysis with reusable electrochemical sensor: Toward point-of-care measurement of the antipsychotic medication clozapine. Biosensors and Bioelectronics, 2017, 95, 55-59.	5.3	33
74	Protein assembly onto patterned microfabricated devices through enzymatic activation of fusion proâ€tag. Biotechnology and Bioengineering, 2008, 99, 499-507.	1.7	32
75	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.	1.3	32
76	Orthogonal Enzymatic Reactions for the Assembly of Proteins at Electrode Addresses. Langmuir, 2009, 25, 338-344.	1.6	31
77	Electrochemical Study of the Catechol-Modified Chitosan System for Clozapine Treatment Monitoring. Langmuir, 2014, 30, 14686-14693.	1.6	31
78	Biofabrication of antibodies and antigens via IgGâ€binding domain engineered with activatable pentatyrosine proâ€tag. Biotechnology and Bioengineering, 2009, 103, 231-240.	1.7	30
79	Glucose Oxidase-Mediated Gelation: A Simple Test To Detect Glucose in Food Products. Journal of Agricultural and Food Chemistry, 2012, 60, 8963-8967.	2.4	30
80	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. Soft Matter, 2013, 9, 6019.	1.2	30
81	Electrofabrication of functional materials: Chloramine-based antimicrobial film for infectious wound treatment. Acta Biomaterialia, 2018, 73, 190-203.	4.1	30
82	Redox Electrochemistry to Interrogate and Control Biomolecular Communication. IScience, 2020, 23, 101545.	1.9	30
83	Blood Draw Barriers for Treatment with Clozapine and Development of a Point-of-Care Monitoring Device. Clinical Schizophrenia and Related Psychoses, 2018, 12, 23-30.	1.4	30
84	Redox-Based Synthetic Biology Enables Electrochemical Detection of the Herbicides Dicamba and Roundup via Rewired <i>Escherichia coli</i>. ACS Sensors, 2019, 4, 1180-1184.	4.0	29
85	Electroaddressing Agarose Using Fmoc-Phenylalanine as a Temporary Scaffold. Langmuir, 2011, 27, 7380-7384.	1.6	28
86	Electrochemical Probing through a Redox Capacitor To Acquire Chemical Information on Biothiols. Analytical Chemistry, 2016, 88, 7213-7221.	3.2	27
87	Electrical Writing onto a Dynamically Responsive Polysaccharide Medium: Patterning Structure and Function into a Reconfigurable Medium. Advanced Functional Materials, 2018, 28, 1803139.	7.8	27
88	Catechol-Based Capacitor for Redox-Linked Bioelectronics. ACS Applied Electronic Materials, 2019, 1, 1337-1347.	2.0	26
89	Hierarchical patterning via dynamic sacrificial printing of stimuli-responsive hydrogels. Biofabrication, 2020, 12, 035007.	3.7	25
90	Functionalizing Soft Matter for Molecular Communication. ACS Biomaterials Science and Engineering, 2015, 1, 320-328.	2.6	24

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91	Selective assembly and functionalization of miniaturized redox capacitor inside microdevices for microbial toxin and mammalian cell cytotoxicity analyses. Lab on A Chip, 2018, 18, 3578-3587.	3.1	24
92	Hydrogel Patterning with Catechol Enables Networked Electron Flow. Advanced Functional Materials, 2021, 31, 2007709.	7.8	24
93	Crosslinking Lessons From Biology: Enlisting Enzymes for Macromolecular Assembly. Journal of Adhesion, 2009, 85, 576-589.	1.8	23
94	Biofabrication with Biopolymers and Enzymes: Potential for Constructing Scaffolds from Soft Matter. International Journal of Artificial Organs, 2011, 34, 215-224.	0.7	23
95	Programmable â€œSemismartâ€• Sensor: Relevance to Monitoring Antipsychotics. Advanced Functional Materials, 2015, 25, 2156-2165.	7.8	23
96	Chip modularity enables molecular information access from organ-on-chip devices with quality control. Sensors and Actuators B: Chemical, 2019, 295, 30-39.	4.0	23
97	A Coculture Based Tyrosine-Tyrosinase Electrochemical Gene Circuit for Connecting Cellular Communication with Electronic Networks. ACS Synthetic Biology, 2020, 9, 1117-1128.	1.9	23
98	Biofabricated film with enzymatic and redox-capacitor functionalities to harvest and store electrons. Biofabrication, 2013, 5, 015008.	3.7	22
99	Catechol-Based Hydrogel for Chemical Information Processing. Biomimetics, 2017, 2, 11.	1.5	21
100	Electrodeposition of a magnetic and redox-active chitosan film for capturing and sensing metabolic active bacteria. Carbohydrate Polymers, 2018, 195, 505-514.	5.1	21
101	Paraquatâ€“Melanin Redox-Cycling: Evidence from Electrochemical Reverse Engineering. ACS Chemical Neuroscience, 2016, 7, 1057-1067.	1.7	20
102	Conferring biological activity to native spider silk: A biofunctionalized proteinâ€based microfiber. Biotechnology and Bioengineering, 2017, 114, 83-95.	1.7	20
103	Redox Activities of Melanins Investigated by Electrochemical Reverse Engineering: Implications for their Roles in Oxidative Stress. Journal of Investigative Dermatology, 2020, 140, 537-543.	0.3	20
104	Towards areaâ€based in vitro metabolic engineering: Assembly of Pfs enzyme onto patterned microfabricated chips. Biotechnology Progress, 2008, 24, 1042-1051.	1.3	19
105	Spatially Resolved Detection of a Nanometer-Scale Gap by Scanning Electrochemical Microscopy. Analytical Chemistry, 2009, 81, 4788-4791.	3.2	19
106	Multimodal label-free detection and discrimination for small molecules using a nanoporous resonator. Nature Communications, 2014, 5, 3456.	5.8	19
107	Exploring pH-Responsive, Switchable Crosslinking Mechanisms for Programming Reconfigurable Hydrogels Based on Aminopolysaccharides. Chemistry of Materials, 2018, 30, 8597-8605.	3.2	19
108	Mediated electrochemistry for redox-based biological targeting: entangling sensing and actuation for maximizing information transfer. Current Opinion in Biotechnology, 2021, 71, 137-144.	3.3	19

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109	Scanning electrochemical microscopy of one-dimensional nanostructure: Effects of nanostructure dimensions on the tip feedback current under unbiased conditions. Journal of Electroanalytical Chemistry, 2009, 629, 78-86.	1.9	18
110	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. Advanced Functional Materials, 2014, 24, 480-491.	7.8	17
111	An Electrochemical Micro-System for Clozapine Antipsychotic Treatment Monitoring. Electrochimica Acta, 2015, 163, 260-270.	2.6	17
112	Modular construction of multi-subunit protein complexes using engineered tags and microbial transglutaminase. Metabolic Engineering, 2016, 38, 1-9.	3.6	17
113	Signal processing approach to probe chemical space for discriminating redox signatures. Biosensors and Bioelectronics, 2018, 112, 127-135.	5.3	17
114	Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. Advanced Functional Materials, 2020, 30, 2001776.	7.8	17
115	Fusing Sensor Paradigms to Acquire Chemical Information: An Integrative Role for Smart Biopolymeric Hydrogels. Advanced Healthcare Materials, 2016, 5, 2595-2616.	3.9	16
116	Electrochemistry for bio-device molecular communication: The potential to characterize, analyze and actuate biological systems. Nano Communication Networks, 2017, 11, 76-89.	1.6	15
117	Catechol-chitosan redox capacitor for added amplification in electrochemical immunoanalysis. Colloids and Surfaces B: Biointerfaces, 2018, 169, 470-477.	2.5	15
118	Validation of oxidative stress assay for schizophrenia. Schizophrenia Research, 2019, 212, 126-133.	1.1	15
119	Electrical cuing of chitosan's mesoscale organization. Reactive and Functional Polymers, 2020, 148, 104492.	2.0	15
120	Biofabricating Functional Soft Matter Using Protein Engineering to Enable Enzymatic Assembly. Bioconjugate Chemistry, 2018, 29, 1809-1822.	1.8	14
121	Coupling Self-Assembly Mechanisms to Fabricate Molecularly and Electrically Responsive Films. Biomacromolecules, 2019, 20, 969-978.	2.6	14
122	Catecholâ€Based Molecular Memory Film for Redox Linked Bioelectronics. Advanced Electronic Materials, 2020, 6, 2000452.	2.6	14
123	Interactive Materials for Bidirectional Redoxâ€Based Communication. Advanced Materials, 2021, 33, e2007758.	11.1	14
124	Association of acute psychosocial stress with oxidative stress: Evidence from serum analysis. Redox Biology, 2021, 47, 102138.	3.9	14
125	Biofabricated Nanoparticle Coating for Liverâ€Cell Targeting. Advanced Healthcare Materials, 2015, 4, 1972-1981.	3.9	13
126	Pro- and Anti-oxidant Properties of Redox-Active Catechol-Chitosan Films. Frontiers in Chemistry, 2019, 7, 541.	1.8	13

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127	Mediated Electrochemical Probing: A Systems-Level Tool for Redox Biology. ACS Chemical Biology, 2021, 16, 1099-1110.	1.6	13
128	Incorporating LsrK AIâ€2 quorum quenching capability in a functionalized biopolymer capsule. Biotechnology and Bioengineering, 2018, 115, 278-289.	1.7	12
129	Reversibly Reconfigurable Cross-Linking Induces Fusion of Separate Chitosan Hydrogel Films. ACS Applied Bio Materials, 2018, 1, 1695-1704.	2.3	12
130	The Analgesic Acetaminophen and the Antipsychotic Clozapine Can Each Redox-Cycle with Melanin. ACS Chemical Neuroscience, 2017, 8, 2766-2777.	1.7	11
131	Polyelectrolyte in Electric Field: Disparate Conformational Behavior along an Aminopolysaccharide Chain. ACS Omega, 2020, 5, 12016-12026.	1.6	11
132	Multidimensional Mapping Method Using an Arrayed Sensing System for Cross-Reactivity Screening. PLoS ONE, 2015, 10, e0116310.	1.1	10
133	Tethered molecular redox capacitors for nanoconfinement-assisted electrochemical signal amplification. Nanoscale, 2020, 12, 3668-3676.	2.8	10
134	A Facile Two-Step Enzymatic Approach for Conjugating Proteins to Polysaccharide Chitosan at an Electrode Interface. Cellular and Molecular Bioengineering, 2017, 10, 134-142.	1.0	9
135	The interplay of electrode- and bio-materials in a redox-cycling-based clozapine sensor. Electrochemistry Communications, 2017, 79, 33-36.	2.3	9
136	A Multistep Photothermicâ€Driven Drug Release System Using Wireâ€Framed Au Nanobundles. Advanced Healthcare Materials, 2015, 4, 255-263.	3.9	8
137	Simple, rapidly electroassembled thiolated PEGâ€based sensor interfaces enable rapid interrogation of antibody titer and glycosylation. Biotechnology and Bioengineering, 2021, 118, 2744-2758.	1.7	8
138	Rapid and Repeatable Redox Cycling of an Insoluble Dietary Antioxidant: Electrochemical Analysis. Journal of Agricultural and Food Chemistry, 2014, 62, 9760-9768.	2.4	7
139	Molecular processes in an electrochemical clozapine sensor. Biointerphases, 2017, 12, 02B401.	0.6	7
140	Catechol Patterned Film Enables the Enzymatic Detection of Glucose with Cell Phone Imaging. ACS Sustainable Chemistry and Engineering, 2021, 9, 14836-14845.	3.2	7
141	System-Level Network Analysis of a Catechol Component for Redox Bioelectronics. ACS Applied Electronic Materials, 2022, 4, 2490-2501.	2.0	7
142	The Binding Effect of Proteins on Medications and Its Impact on Electrochemical Sensing: Antipsychotic Clozapine as a Case Study. Pharmaceuticals, 2017, 10, 69.	1.7	6
143	Biofabrication Based on the Enzyme-Catalyzed Coupling and Crosslinking of Pre-Formed Biopolymers. ACS Symposium Series, 2010, , 35-44.	0.5	5
144	The Role of Microsystems Integration Towards Point-of-Care Clozapine Treatment Monitoring in Schizophrenia. , 2018, 2, 1-4.		4

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145	Electrochemical reverse engineering to probe for drug-phenol redox interactions. Electrochimica Acta, 2019, 295, 742-750.	2.6	4
146	Transglutaminase-mediated assembly of multi-enzyme pathway onto TMV brush surfaces for synthesis of bacterial autoinducer-2. Biofabrication, 2020, 12, 045017.	3.7	4
147	Network-based redox communication between abiotic interactive materials. IScience, 2022, 25, 104548.	1.9	4
148	Orthogonal Redox and Optical Stimuli Can Induce Independent Responses for Catechol-Chitosan Films. Materials Chemistry Frontiers, 0, , .	3.2	3
149	Catechol-modified Chitosan System as a Bio-amplifier for Schizophrenia Treatment Analysis. Materials Research Society Symposia Proceedings, 2013, 1572, 1.	0.1	2
150	Redox: Electron-Based Approach to Bio-Device Molecular Communication. , 2018, , .		2
151	Molecular Memory: Catecholâ€Based Molecular Memory Film for Redox Linked Bioelectronics (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	1
152	Novel approach for generating an electrochemically active film with amplification, switching and diode-like behavior. , 2009, , .		0
153	Biofabrication: Enlisting the Unique Capabilities of Biological Polymers for Hierarchical Construction. ACS Symposium Series, 2011, , 61-71.	0.5	0