

Hugh O'neill

List of Publications by Year in descending order

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159
papers

6,662
citations

79946

39
h-index

80575

73
g-index

173
all docs

173
docs citations

173
times ranked

10691
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural plasticity of SARS-CoV-2 3CL Mpro active site cavity revealed by room temperature X-ray crystallography. <i>Nature Communications</i> , 2020, 11, 3202.	13.2	368
2	Biomimetic synthesis of calcium-deficient hydroxyapatite in a natural hydrogel. <i>Biomaterials</i> , 2006, 27, 4661-4670.	11.8	319
3	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7997-8018.	5.0	290
4	Effect of Treatment With Zileuton, a 5-Lipoxygenase Inhibitor, in Patients With Asthma. <i>JAMA - Journal of the American Medical Association</i> , 1996, 275, 931.	7.0	236
5	Palladium-bacterial cellulose membranes for fuel cells. <i>Biosensors and Bioelectronics</i> , 2003, 18, 917-923.	10.4	213
6	Common processes drive the thermochemical pretreatment of lignocellulosic biomass. <i>Green Chemistry</i> , 2014, 16, 63-68.	9.4	204
7	Comparative Structural and Computational Analysis Supports Eighteen Cellulose Synthases in the Plant Cellulose Synthesis Complex. <i>Scientific Reports</i> , 2016, 6, 28696.	3.4	178
8	High photo-electrochemical activity of thylakoid-carbon nanotube composites for photosynthetic energy conversion. <i>Energy and Environmental Science</i> , 2013, 6, 1891.	32.2	175
9	Self-organized photosynthetic nanoparticle for cell-free hydrogen production. <i>Nature Nanotechnology</i> , 2010, 5, 73-79.	30.5	173
10	Breakdown of Cell Wall Nanostructure in Dilute Acid Pretreated Biomass. <i>Biomacromolecules</i> , 2010, 11, 2329-2335.	5.6	145
11	Dynamics of Protein and its Hydration Water: Neutron Scattering Studies on Fully Deuterated GFP. <i>Biophysical Journal</i> , 2012, 103, 1566-1575.	0.5	128
12	Effect of lignin content on changes occurring in poplar cellulose ultrastructure during dilute acid pretreatment. <i>Biotechnology for Biofuels</i> , 2014, 7, 150.	6.3	120
13	Malleability of the SARS-CoV-2 3CL Mpro Active-Site Cavity Facilitates Binding of Clinical Antivirals. <i>Structure</i> , 2020, 28, 1313-1320.e3.	3.4	115
14	A Structural Study of CESA1 Catalytic Domain of Arabidopsis Cellulose Synthesis Complex: Evidence for CESA Trimers. <i>Plant Physiology</i> , 2016, 170, 123-135.	5.1	107
15	Unusual zwitterionic catalytic site of SARS-CoV-2 main protease revealed by neutron crystallography. <i>Journal of Biological Chemistry</i> , 2020, 295, 17365-17373.	3.5	104
16	The Shape of Native Plant Cellulose Microfibrils. <i>Scientific Reports</i> , 2018, 8, 13983.	3.4	98
17	A microbial fuel cell operating at low pH using the acidophile <i>Acidiphilium cryptum</i> . <i>Biotechnology Letters</i> , 2008, 30, 1367-1372.	2.2	97
18	Organization and Flexibility of Cyanobacterial Thylakoid Membranes Examined by Neutron Scattering. <i>Journal of Biological Chemistry</i> , 2013, 288, 3632-3640.	3.5	92

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19	The Bio-SANS instrument at the High Flux Isotope Reactor of Oak Ridge National Laboratory. <i>Journal of Applied Crystallography</i> , 2014, 47, 1238-1246.	4.9	89
20	Generation of the configurational ensemble of an intrinsically disordered protein from unbiased molecular dynamics simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20446-20452.	7.6	89
21	Dynamics of water bound to crystalline cellulose. <i>Scientific Reports</i> , 2017, 7, 11840.	3.4	87
22	Modification of the nanostructure of lignocellulose cell walls via a non-enzymatic lignocellulose deconstruction system in brown rot wood-decay fungi. <i>Biotechnology for Biofuels</i> , 2017, 10, 179.	6.3	87
23	Gradients in Wall Mechanics and Polysaccharides along Growing Inflorescence Stems. <i>Plant Physiology</i> , 2017, 175, 1593-1607.	5.1	87
24	Characterization of the Influence of the Ionic Liquid 1-Butyl-3-methylimidazolium Chloride on the Structure and Thermal Stability of Green Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13866-13871.	2.7	77
25	Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1098-1105.	14.6	74
26	Self-similar multiscale structure of lignin revealed by neutron scattering and molecular dynamics simulation. <i>Physical Review E</i> , 2011, 83, 061911.	2.1	72
27	Secondary structure and rigidity in model proteins. <i>Soft Matter</i> , 2013, 9, 9548.	2.8	70
28	Effects of Object Affordances on Reaching Performance in Persons With and Without Cerebrovascular Accident. <i>American Journal of Occupational Therapy</i> , 1998, 52, 447-456.	0.3	67
29	Internet of Smart Things - IoST: Using Blockchain and CLIPS to Make Things Autonomous. , 2017, , .		64
30	Structural coarsening of aspen wood by hydrothermal pretreatment monitored by small- and wide-angle scattering of X-rays and neutrons on oriented specimens. <i>Cellulose</i> , 2014, 21, 1015-1024.	5.1	58
31	Enhanced Photocatalytic Hydrogen Evolution by Covalent Attachment of Plastocyanin to Photosystem I. <i>Nano Letters</i> , 2004, 4, 1815-1819.	9.5	55
32	Room-temperature X-ray crystallography reveals the oxidation and reactivity of cysteine residues in SARS-CoV-2 3CL M ^{pro} : insights into enzyme mechanism and drug design. <i>IUCr</i> , 2020, 7, 1028-1035.	2.3	54
33	Elastic and Conformational Softness of a Globular Protein. <i>Physical Review Letters</i> , 2013, 110, 028104.	8.0	52
34	Comparison of changes in cellulose ultrastructure during different pretreatments of poplar. <i>Cellulose</i> , 2014, 21, 2419-2431.	5.1	50
35	Neutron scattering in the biological sciences: progress and prospects. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1129-1168.	2.4	49
36	Cellulose-lignin composite fibres as precursors for carbon fibres. Part 1 – Manufacturing and properties of precursor fibres. <i>Carbohydrate Polymers</i> , 2021, 252, 117133.	10.5	47

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37	The effect of deuteration on the structure of bacterial cellulose. Carbohydrate Research, 2013, 374, 82-88.	2.4	46
38	Hydration Control of the Mechanical and Dynamical Properties of Cellulose. Biomacromolecules, 2014, 15, 4152-4159.	5.6	46
39	Direct Determination of Hydroxymethyl Conformations of Plant Cell Wall Cellulose Using ¹ H Polarization Transfer Solid-State NMR. Biomacromolecules, 2018, 19, 1485-1497.	5.6	46
40	Revealing the Dynamics of Thylakoid Membranes in Living Cyanobacterial Cells. Scientific Reports, 2016, 6, 19627.	3.4	45
41	Transient and stabilized complexes of Nsp7, Nsp8, and Nsp12 in SARS-CoV-2 replication. Biophysical Journal, 2021, 120, 3152-3165.	0.5	44
42	A Diazonium Salt-Based Ionic Liquid for Solvent-Free Modification of Carbon. European Journal of Organic Chemistry, 2006, 2006, 586-589.	2.5	40
43	Mean-squared atomic displacements in hydrated lysozyme, native and denatured. Journal of Biological Physics, 2010, 36, 291-297.	1.6	40
44	Correlation of Cerebral Microbleed Distribution to Amyloid Burden in Patients with Primary Intracerebral Hemorrhage. Scientific Reports, 2017, 7, 44715.	3.4	40
45	Small Angle Neutron Scattering Shows Nanoscale PMMA Distribution in Transparent Wood Biocomposites. Nano Letters, 2021, 21, 2883-2890.	9.5	40
46	A resorbable calcium-deficient hydroxyapatite hydrogel composite for osseous regeneration. Cellulose, 2009, 16, 887-898.	5.1	39
47	Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. Advanced Functional Materials, 2010, 20, 3031-3038.	16.5	37
48	Morphological changes in the cellulose and lignin components of biomass occur at different stages during steam pretreatment. Cellulose, 2014, 21, 873-878.	5.1	37
49	Bacterial Cellulose Ionogels as Chemosensory Supports. ACS Applied Materials & Interfaces, 2017, 9, 38042-38051.	8.3	37
50	Highly sensitive and selective 2-nitroaniline chemical sensor based on Ce-doped SnO ₂ nanosheets/Nafion-modified glassy carbon electrode. Advanced Composites and Hybrid Materials, 2021, 4, 1015-1026.	21.5	37
51	Understanding Multiscale Structural Changes During Dilute Acid Pretreatment of Switchgrass and Poplar. ACS Sustainable Chemistry and Engineering, 2017, 5, 426-435.	6.9	35
52	Characterization of Sol ^g -Gel-Encapsulated Proteins Using Small-Angle Neutron Scattering. ACS Applied Materials & Interfaces, 2009, 1, 2262-2268.	8.3	34
53	Insight into the Structure of Light-Harvesting Complex II and Its Stabilization in Detergent Solution. Journal of Physical Chemistry B, 2009, 113, 16377-16383.	2.7	34
54	Distinguishing Surface versus Bulk Hydroxyl Groups of Cellulose Nanocrystals Using Vibrational Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 70-75.	4.9	33

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55	Nanostructural Analysis of Enzymatic and Non-enzymatic Brown Rot Fungal Deconstruction of the Lignocellulose Cell Wall. <i>Frontiers in Microbiology</i> , 2020, 11, 1389.	3.6	33
56	Dynamical Transition of Collective Motions in Dry Proteins. <i>Physical Review Letters</i> , 2017, 119, 048101.	8.0	32
57	Interaction of Zinc Oxide Nanoparticles with Water: Implications for Catalytic Activity. <i>ACS Applied Nano Materials</i> , 2019, 2, 4257-4266.	5.2	32
58	Arabinose substitution effect on xylan rigidity and self-aggregation. <i>Cellulose</i> , 2019, 26, 2267-2278.	5.1	32
59	Ammonia-salt solvent promotes cellulosic biomass deconstruction under ambient pretreatment conditions to enable rapid soluble sugar production at ultra-low enzyme loadings. <i>Green Chemistry</i> , 2020, 22, 204-218.	9.4	32
60	Deconstruction of biomass enabled by local demixing of cosolvents at cellulose and lignin surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16776-16781.	7.6	32
61	Impact of hydration and temperature history on the structure and dynamics of lignin. <i>Green Chemistry</i> , 2018, 20, 1602-1611.	9.4	31
62	SANS study of cellulose extracted from switchgrass. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1189-1193.	2.4	30
63	Probing the consequences of antenna modification in cyanobacteria. <i>Photosynthesis Research</i> , 2013, 118, 17-24.	2.9	30
64	Controlled incorporation of deuterium into bacterial cellulose. <i>Cellulose</i> , 2014, 21, 927-936.	5.1	30
65	Neutron Scattering Studies of the Interplay of Amyloid β Peptide (1-40) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. <i>Scientific Reports</i> , 2016, 6, 30983.	3.4	30
66	Small Angle Neutron Scattering Reveals pH-dependent Conformational Changes in <i>Trichoderma reesei</i> Cellobiohydrolase I. <i>Journal of Biological Chemistry</i> , 2011, 286, 32801-32809.	3.5	29
67	<i>In Vivo</i> Protein Dynamics on the Nanometer Length Scale and Nanosecond Time Scale. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1899-1904.	4.9	29
68	Tension wood structure and morphology conducive for better enzymatic digestion. <i>Biotechnology for Biofuels</i> , 2018, 11, 44.	6.3	29
69	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	3.5	29
70	Cloning and Analysis of the Genes for a Novel Electron-transferring Flavoprotein from <i>Megasphaera elsdenii</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 21015-21024.	3.5	27
71	Role of methyl groups in dynamics and evolution of biomolecules. <i>Journal of Biological Physics</i> , 2012, 38, 497-505.	1.6	27
72	Comparative molecular analysis of the prokaryotic diversity of two salt mine soils in southwest China. <i>Journal of Basic Microbiology</i> , 2013, 53, 942-952.	3.6	27

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73	The application and use of chemical space mapping to interpret crystallization screening results. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 1240-1249.	2.4	26
74	Raman spectra of dolomite [CaMg(CO ₃) ₂]. <i>Physical Review B</i> , 1976, 14, 4676-4678.	3.3	25
75	Spectroscopy and Photochemistry of Spinach Photosystem I Entrapped and Stabilized in a Hybrid Organosilicate Glass. <i>Chemistry of Materials</i> , 2005, 17, 2654-2661.	7.1	25
76	Protein extraction into the bicontinuous microemulsion phase of a Water/SDS/pentanol/dodecane Winsor-III system: Effect on nanostructure and protein conformation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 144-153.	5.1	25
77	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	3.5	25
78	Potent and selective covalent inhibition of the papain-like protease from SARS-CoV-2. <i>Nature Communications</i> , 2023, 14, .	13.2	25
79	Apparent Decoupling of the Dynamics of a Protein from the Dynamics of its Aqueous Solvent. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 380-385.	4.9	24
80	Coherent Neutron Scattering and Collective Dynamics in the Protein, GFP. <i>Biophysical Journal</i> , 2013, 105, 2182-2187.	0.5	24
81	Spatially confined protein assembly in hierarchical mesoporous metal-organic framework. <i>Nature Communications</i> , 2023, 14, .	13.2	24
82	Analysis of the solution structure of <i>Thermosynechococcus elongatus</i> photosystem I in n-dodecyl-β-D-maltoside using small-angle neutron scattering and molecular dynamics simulation. <i>Archives of Biochemistry and Biophysics</i> , 2014, 550-551, 50-57.	3.2	23
83	Dependence of Sum Frequency Generation (SFG) Spectral Features on the Mesoscale Arrangement of SFG-Active Crystalline Domains Interspersed in SFG-Inactive Matrix: A Case Study with Cellulose in Uniaxially Aligned Control Samples and Alkali-Treated Secondary Cell Walls of Plants. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10249-10257.	3.3	23
84	Nanoscale dynamics of bicontinuous microemulsions: effect of membrane associated protein. <i>Soft Matter</i> , 2017, 13, 4871-4880.	2.8	23
85	Hemicellulose-Cellulose Composites Reveal Differences in Cellulose Organization after Dilute Acid Pretreatment. <i>Biomacromolecules</i> , 2019, 20, 893-903.	5.6	23
86	Effects of soil particles and convective transport on dispersion and aggregation of nanoplastics via small-angle neutron scattering (SANS) and ultra SANS (USANS). <i>PLoS ONE</i> , 2020, 15, e0235893.	2.5	22
87	Untangling the threads of cellulose mercerization. <i>Nature Communications</i> , 2022, 13, .	13.2	21
88	Excited-State Dynamics of Water-Soluble Polythiophene Derivatives: Temperature and Side-Chain Length Effects. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14451-14460.	2.7	20
89	Deuterium incorporation in biomass cell wall components by NMR analysis. <i>Analyst</i> , 2012, 137, 1090.	3.5	20
90	Effect of D ₂ O on Growth Properties and Chemical Structure of Annual Ryegrass (<i>Lolium multiflorum</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2595-2604.	5.3	20

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91	Temperature Dependence of Logarithmic-like Relaxational Dynamics of Hydrated tRNA. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 936-942.	4.9	19
92	Physical Insight into Switchgrass Dissolution in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1264-1269.	6.9	19
93	Effect of Protein Incorporation on the Nanostructure of the Bicontinuous Microemulsion Phase of Winsor-III Systems: A Small-Angle Neutron Scattering Study. <i>Langmuir</i> , 2015, 31, 1901-1910.	3.7	19
94	Combined Small-Angle Neutron Scattering, Diffusion NMR, and Molecular Dynamics Study of a Eutectogel: Illuminating the Dynamical Behavior of Glycine Confined in Bacterial Cellulose Gels. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7647-7658.	2.7	19
95	Small-Angle X-ray Scattering Study of Photosystem II-Detergent Complexes: Implications for Membrane Protein Crystallization. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4211-4219.	2.7	18
96	Small-angle neutron scattering reveals the assembly of alpha-synuclein in lipid membranes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1881-1889.	2.3	18
97	In Vitro Vascular-Protective Effects of a Tilapia By-Product Oligopeptide on Angiotensin II-Induced Hypertensive Endothelial Injury in HUVEC by Nrf2/NF- κ B Pathways. <i>Marine Drugs</i> , 2019, 17, 431.	4.6	18
98	Cellulose synthase interactive1- and microtubule-dependent cell wall architecture is required for acid growth in Arabidopsis hypocotyls. <i>Journal of Experimental Botany</i> , 2020, 71, 2982-2994.	4.9	18
99	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 783-790.	2.2	17
100	Laser-induced breakdown spectroscopy used to detect palladium and silver metal dispersed in bacterial cellulose membranes. <i>Applied Optics</i> , 2003, 42, 6174.	2.1	17
101	Neutron Technologies for Bioenergy Research. <i>Industrial Biotechnology</i> , 2012, 8, 209-216.	1.0	17
102	A Communication Based Islanding Detection Method for Photovoltaic Distributed Generation Systems. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-17.	2.7	17
103	Folding propensity of intrinsically disordered proteins by osmotic stress. <i>Molecular BioSystems</i> , 2016, 12, 3695-3701.	2.8	17
104	^2H - ^{13}C correlation solid-state NMR for investigating dynamics and water accessibilities of proteins and carbohydrates. <i>Journal of Biomolecular NMR</i> , 2017, 68, 257-270.	2.8	17
105	New Technologies are Needed to Improve the Recycling and Upcycling of Waste Plastics. <i>ChemSusChem</i> , 2021, 14, 3982-3984.	7.5	17
106	Influence of the oxygen adsorbed on tin varistors doped with Co, Mn and Cr oxides. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 409-414.	2.2	16
107	Supramolecular assembly of biohybrid photoconversion systems. <i>Energy and Environmental Science</i> , 2011, 4, 181-188.	32.2	16
108	Production of deuterated switchgrass by hydroponic cultivation. <i>Planta</i> , 2015, 242, 215-222.	3.3	15

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109	Bicontinuous microemulsions as a biomembrane mimetic system for melittin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 624-632.	2.7	15
110	Conformational Dynamics in the Interaction of SARS-CoV-2 Papain-like Protease with Human Interferon-Stimulated Gene 15 Protein. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5608-5615.	4.9	15
111	Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and γ -Valerolactone Pretreatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9041-9052.	6.9	15
112	Enhanced Dynamics of Hydrated tRNA on Nanodiamond Surfaces: A Combined Neutron Scattering and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10059-10068.	2.7	14
113	Direct Experimental Characterization of Contributions from Self-Motion of Hydrogen and from Interatomic Motion of Heavy Atoms to Protein Anharmonicity. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9956-9961.	2.7	12
114	Incorporation of Melittin Enhances Interfacial Fluidity of Bicontinuous Microemulsions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11197-11206.	3.3	12
115	Sol-gel entrapped light harvesting antennas: immobilization and stabilization of chlorosomes for energy harvesting. <i>Journal of Materials Chemistry</i> , 2012, 22, 22582.	6.7	11
116	Production of Bacterial Cellulose with Controlled Deuterium-Hydrogen Substitution for Neutron Scattering Studies. <i>Methods in Enzymology</i> , 2015, 565, 123-146.	1.7	11
117	Influence of Chemically Disrupted Photosynthesis on Cyanobacterial Thylakoid Dynamics in <i>Synechocystis</i> sp. PCC 6803. <i>Scientific Reports</i> , 2019, 9, 5711.	3.4	11
118	Biosynthesis and characterization of deuterated chitosan in filamentous fungus and yeast. <i>Carbohydrate Polymers</i> , 2021, 257, 117637.	10.5	10
119	Localized entrapment of green fluorescent protein within nanostructured polymer films. <i>Soft Matter</i> , 2011, 7, 11453.	2.8	9
120	Structural Insights into Low and High Recalcitrance Natural Poplar Variants Using Neutron and X-ray Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13838-13849.	6.9	9
121	Structural Reorganization of Noncellulosic Polymers Observed In Situ during Dilute Acid Pretreatment by Small-Angle Neutron Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 314-322.	6.9	8
122	Engineered zinc oxide-based nanotherapeutics boost systemic antibacterial efficacy against phloem-restricted diseases. <i>Environmental Science: Nano</i> , 2022, 9, 2869-2886.	4.2	8
123	Sunlight Energy Conversion Via Organics. , 2010, , 675-715.		7
124	Selective serotonin reuptake inhibitor or serotonin-norepinephrine reuptake inhibitors and epidemiological characteristics associated with prenatal diagnosis of congenital heart disease. <i>Prenatal Diagnosis</i> , 2021, 41, 35-42.	1.8	7
125	Morphological Characterization of Self-Amplifying mRNA Lipid Nanoparticles. <i>ACS Nano</i> , 2024, 18, 1464-1476.	15.3	7
126	Observation of a structural gradient in Winsor-III microemulsion systems. <i>Soft Matter</i> , 2018, 14, 5270-5276.	2.8	6

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127	Fed-batch production of deuterated protein in <i>Escherichia coli</i> for neutron scattering experimentation. <i>Methods in Enzymology</i> , 2021, 659, 219-240.	1.7	6
128	Evidence for Plant-Conserved Region Mediated Trimeric CESAs in Plant Cellulose Synthase Complexes. <i>Biomacromolecules</i> , 2022, 23, 3663-3677.	5.6	6
129	Metabolic Prosthesis for Oxygenation of Ischemic Tissue. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 528-531.	4.4	5
130	Production of deuterated biomass by cultivation of <i>Lemna minor</i> (duckweed) in D ₂ O. <i>Planta</i> , 2019, 249, 1465-1475.	3.3	5
131	Identifying Stable Fragments of <i>Arabidopsis thaliana</i> Cellulose Synthase Subunit 3 by Yeast Display. <i>Biotechnology Journal</i> , 2019, 14, e1800353.	3.7	5
132	A machine learning analysis of difficulty scoring systems for laparoscopic liver surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, 36, 8869-8880.	2.6	5
133	Effect of Surface Attachment on Synthesis of Bacterial Cellulose. <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0439-0450.	3.0	4
134	Characterization of Morphology and Active Agent Mobility within Hybrid Silica Sol-Gel Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13972-13979.	3.3	4
135	Reentrant condensation of lysozyme: Implications for studying dynamics of lysozyme in aqueous solutions of lithium chloride. <i>Biopolymers</i> , 2014, 101, 624-629.	2.6	4
136	Disordered Domain Shifts the Conformational Ensemble of the Folded Regulatory Domain of the Multidomain Oncoprotein c-Src. <i>Biomacromolecules</i> , 2023, 24, 714-723.	5.6	4
137	Evidence for Lignin-Carbohydrate Complexes from Studies of Transgenic Switchgrass and a Model Lignin-Pectin Composite. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 15941-15950.	6.9	4
138	Cloning of Electron-Transferring Flavoprotein from <i>Megasphaera elsdenii</i> . <i>Biochemical Society Transactions</i> , 1995, 23, 379S-379S.	3.4	3
139	A Method to set process parameters of local squeeze in HPDC. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 33, 012001.	0.6	3
140	Collective Excitations in Protein as a Measure of Balance Between its Softness and Rigidity. <i>Journal of Physical Chemistry B</i> , 2017, 121, 923-930.	2.7	3
141	Multi-Purpose Cellulosic Ionogels. <i>ACS Symposium Series</i> , 2017, , 143-155.	0.0	3
142	Allelopathic effects of exogenous phenylalanine: a comparison of four monocot species. <i>Planta</i> , 2017, 246, 673-685.	3.3	3
143	Development of Bacterial Cellulose Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	2
144	Crystallization and preliminary X-ray diffraction analysis of <i>Hypocrea jecorina</i> Cel7A in two new crystal forms. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 773-776.	0.9	2

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145	Structural Studies of Deuterium-Labeled Switchgrass Biomass. ACS Symposium Series, 2019, , 17-32.	0.0	2
146	Incorporation of Membrane Proteins Into Bicontinuous Microemulsions Through Winsor III System-Based Extraction. Journal of Surfactants and Detergents, 2021, 24, 649-660.	2.0	2
147	Stem Cell Transplantation with 90Yttrium Ibritumomab Tiuxetan(90YIT) in Non-Hodgkin's Lymphoma (NHL): Observations From PET Pre-Treatment Imaging and Responses in Allografted Refractory Follicular Histologies.. Blood, 2009, 114, 868-868.	1.4	2
148	Ectopic Production of 3,4-Dihydroxybenzoate <i>in Planta</i> Affects Cellulose Structure and Organization. Biomacromolecules, 2024, 25, 3542-3553.	5.6	2
149	An Efficient Evaluation and Vector Generation Method for Observability-Enhanced Statement Coverage. Journal of Computer Science and Technology, 2005, 20, 875-884.	1.5	1
150	Investigation of detergent effects on the solution structure of spinach Light Harvesting Complex II. Journal of Physics: Conference Series, 2010, 251, 012041.	0.4	1
151	Amphiphilic Co-Solvents Modulate the Structure of Membrane Domains. ACS Sustainable Chemistry and Engineering, 0, , .	6.9	1
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