

# Hugh M O neill

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	4,091 citations	35 h-index	59 g-index
140 ext. papers	4,906 ext. citations	6.1 avg, IF	5.5 L-index

#	Paper	IF	Citations
133	Structural Reorganization of Noncellulosic Polymers Observed In Situ during Dilute Acid Pretreatment by Small-Angle Neutron Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 314-322	8.3	1
132	Fed-batch production of deuterated protein in Escherichia coli for neutron scattering experimentation. <i>Methods in Enzymology</i> , <b>2021</b> , 659, 219-240	1.7	1
131	Potent and Selective Covalent Inhibitors of the Papain-like Protease from SARS-CoV-2 <b>2021</b> ,		4
130	Incorporation of Membrane Proteins Into Bicontinuous Microemulsions Through Winsor-III System-Based Extraction. <i>Journal of Surfactants and Detergents</i> , <b>2021</b> , 24, 649-660	1.9	0
129	Small Angle Neutron Scattering Shows Nanoscale PMMA Distribution in Transparent Wood Biocomposites. <i>Nano Letters</i> , <b>2021</b> , 21, 2883-2890	11.5	8
128	Biosynthesis and characterization of deuterated chitosan in filamentous fungus and yeast. <i>Carbohydrate Polymers</i> , <b>2021</b> , 257, 117637	10.3	4
127	Melittin exerts opposing effects on short- and long-range dynamics in bicontinuous microemulsions. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 590, 94-102	9.3	1
126	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> , <b>2021</b> , 12, 5608-5615	6.4	5
125	Cellulose-lignin composite fibres as precursors for carbon fibres. Part 1 - Manufacturing and properties of precursor fibres. <i>Carbohydrate Polymers</i> , <b>2021</b> , 252, 117133	10.3	6
124	Transient and stabilized complexes of Nsp7, Nsp8, and Nsp12 in SARS-CoV-2 replication. <i>Biophysical Journal</i> , <b>2021</b> , 120, 3152-3165	2.9	11
123	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1105-1119	5.4	14
122	Nanostructural Analysis of Enzymatic and Non-enzymatic Brown Rot Fungal Deconstruction of the Lignocellulose Cell Wall. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1389	5.7	13
121	Structural plasticity of SARS-CoV-2 3CL M active site cavity revealed by room temperature X-ray crystallography. <i>Nature Communications</i> , <b>2020</b> , 11, 3202	17.4	185
120	Cellulose synthase interactive1- and microtubule-dependent cell wall architecture is required for acid growth in Arabidopsis hypocotyls. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 2982-2994	7	5
119	Room-temperature X-ray crystallography reveals the oxidation and reactivity of cysteine residues in SARS-CoV-2 3CL M: insights into enzyme mechanism and drug design. <i>IUCrJ</i> , <b>2020</b> , 7,	4.7	27
118	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1105-1119	5.4	10
117	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> , <b>2020</b> , 22, 204-218	10	18

116	Unusual zwitterionic catalytic site of SARS-CoV-2 main protease revealed by neutron crystallography. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 17365-17373	5.4	50
115	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> , <b>2020</b> , 117, 16776-16781	11.5	13
114	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> , <b>2020</b> , 15, e0235893	3.7	7
113	Combined Small-Angle Neutron Scattering, Diffusion NMR, and Molecular Dynamics Study of a Eutectogel: Illuminating the Dynamical Behavior of Glyceline Confined in Bacterial Cellulose Gels. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7647-7658	3.4	10
112	Structural Insights into Low and High Recalcitrance Natural Poplar Variants Using Neutron and X-ray Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13838-13849	8.3	3
111	Malleability of the SARS-CoV-2 3CL M Active-Site Cavity Facilitates Binding of Clinical Antivirals. <i>Structure</i> , <b>2020</b> , 28, 1313-1320.e3	5.2	61
110	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> , <b>2019</b> , 116, 20446-20452	11.5	38
109	Production of deuterated biomass by cultivation of <i>Lemna minor</i> (duckweed) in DO. <i>Planta</i> , <b>2019</b> , 249, 1465-1475	4.7	3
108	Interaction of Zinc Oxide Nanoparticles with Water: Implications for Catalytic Activity. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 4257-4266	5.6	14
107	Influence of Chemically Disrupted Photosynthesis on Cyanobacterial Thylakoid Dynamics in <i>Synechocystis</i> sp. PCC 6803. <i>Scientific Reports</i> , <b>2019</b> , 9, 5711	4.9	7
106	Incorporation of Melittin Enhances Interfacial Fluidity of Bicontinuous Microemulsions. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11197-11206	3.8	6
105	Mechanical formation of micro- and nano-plastic materials for environmental studies in agricultural ecosystems. <i>Science of the Total Environment</i> , <b>2019</b> , 685, 1097-1106	10.2	46
104	Structural Studies of Deuterium-Labeled Switchgrass Biomass. <i>ACS Symposium Series</i> , <b>2019</b> , 17-32	0.4	1
103	Identifying Stable Fragments of <i>Arabidopsis thaliana</i> Cellulose Synthase Subunit 3 by Yeast Display. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800353	5.6	3
102	Hemicellulose-Cellulose Composites Reveal Differences in Cellulose Organization after Dilute Acid Pretreatment. <i>Biomacromolecules</i> , <b>2019</b> , 20, 893-903	6.9	13
101	Arabinose substitution effect on xylan rigidity and self-aggregation. <i>Cellulose</i> , <b>2019</b> , 26, 2267-2278	5.5	17
100	Tension wood structure and morphology conducive for better enzymatic digestion. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 44	7.8	17
99	Direct Determination of Hydroxymethyl Conformations of Plant Cell Wall Cellulose Using H Polarization Transfer Solid-State NMR. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1485-1497	6.9	30

98	Impact of hydration and temperature history on the structure and dynamics of lignin. <i>Green Chemistry</i> , <b>2018</b> , 20, 1602-1611	10	19
97	Distinguishing Surface versus Bulk Hydroxyl Groups of Cellulose Nanocrystals Using Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 70-75	6.4	23
96	Bicontinuous microemulsions as a biomembrane mimetic system for melittin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 624-632	3.8	11
95	Neutron scattering in the biological sciences: progress and prospects. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 1129-1168	5.5	31
94	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> , <b>2018</b> , 122, 9956-9961	3.4	4
93	The Shape of Native Plant Cellulose Microfibrils. <i>Scientific Reports</i> , <b>2018</b> , 8, 13983	4.9	47
92	Observation of a structural gradient in Winsor-III microemulsion systems. <i>Soft Matter</i> , <b>2018</b> , 14, 5270-5276	3.6	4
91	Collective Excitations in Protein as a Measure of Balance Between its Softness and Rigidity. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 923-930	3.4	2
90	In Vivo Protein Dynamics on the Nanometer Length Scale and Nanosecond Time Scale. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1899-1904	6.4	22
89	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> , <b>2017</b> , 121, 10249-10257	3.8	18
88	Understanding Multiscale Structural Changes During Dilute Acid Pretreatment of Switchgrass and Poplar. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 426-435	8.3	23
87	Nanoscope dynamics of bicontinuous microemulsions: effect of membrane associated protein. <i>Soft Matter</i> , <b>2017</b> , 13, 4871-4880	3.6	16
86	Bacterial Cellulose Ionogels as Chemosensory Supports. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38042-38051	9.5	23
85	Multi-Purpose Cellulosic Ionogels. <i>ACS Symposium Series</i> , <b>2017</b> , 143-155	0.4	3
84	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> , <b>2017</b> , 10, 179	7.8	52
83	Gradients in Wall Mechanics and Polysaccharides along Growing Inflorescence Stems. <i>Plant Physiology</i> , <b>2017</b> , 175, 1593-1607	6.6	57
82	Dynamics of water bound to crystalline cellulose. <i>Scientific Reports</i> , <b>2017</b> , 7, 11840	4.9	56
81	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> , <b>2017</b> , 160, 144-153	6	20

80	Dynamical Transition of Collective Motions in Dry Proteins. <i>Physical Review Letters</i> , <b>2017</b> , 119, 048101	7.4	21
79	H-C correlation solid-state NMR for investigating dynamics and water accessibilities of proteins and carbohydrates. <i>Journal of Biomolecular NMR</i> , <b>2017</b> , 68, 257-270	3	11
78	Allelopathic effects of exogenous phenylalanine: a comparison of four monocot species. <i>Planta</i> , <b>2017</b> , 246, 673-685	4.7	3
77	Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1098-1105	16.4	53
76	Enhanced Dynamics of Hydrated tRNA on Nanodiamond Surfaces: A Combined Neutron Scattering and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 10059-10068	3.4	13
75	Comparative Structural and Computational Analysis Supports Eighteen Cellulose Synthases in the Plant Cellulose Synthesis Complex. <i>Scientific Reports</i> , <b>2016</b> , 6, 28696	4.9	104
74	Revealing the Dynamics of Thylakoid Membranes in Living Cyanobacterial Cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 19627	4.9	28
73	A Structural Study of CESA1 Catalytic Domain of Arabidopsis Cellulose Synthesis Complex: Evidence for CESA Trimers. <i>Plant Physiology</i> , <b>2016</b> , 170, 123-35	6.6	78
72	Neutron Scattering Studies of the Interplay of Amyloid $\beta$ Peptide(1-40) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. <i>Scientific Reports</i> , <b>2016</b> , 6, 30983	4.9	20
71	Folding propensity of intrinsically disordered proteins by osmotic stress. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 3695-3701		9
70	Effect of antimicrobial peptide on the dynamics of phosphocholine membrane: role of cholesterol and physical state of bilayer. <i>Soft Matter</i> , <b>2015</b> , 11, 6755-67	3.6	48
69	Nanoscope dynamics of phospholipid in unilamellar vesicles: effect of gel to fluid phase transition. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 4460-70	3.4	45
68	Production of deuterated switchgrass by hydroponic cultivation. <i>Planta</i> , <b>2015</b> , 242, 215-22	4.7	12
67	Small-angle neutron scattering reveals the assembly of alpha-synuclein in lipid membranes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 1881-1889	4	14
66	Production of bacterial cellulose with controlled deuterium-hydrogen substitution for neutron scattering studies. <i>Methods in Enzymology</i> , <b>2015</b> , 565, 123-46	1.7	9
65	Oligomerization state and pigment binding strength of the peridinin-Chl a-protein. <i>FEBS Letters</i> , <b>2015</b> , 589, 2713-9	3.8	1
64	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> , <b>2015</b> , 31, 1901-10	4	15
63	Common processes drive the thermochemical pretreatment of lignocellulosic biomass. <i>Green Chemistry</i> , <b>2014</b> , 16, 63-68	10	159

62	Hydration control of the mechanical and dynamical properties of cellulose. <i>Biomacromolecules</i> , <b>2014</b> , 15, 4152-9	6.9	36
61	Physical Insight into Switchgrass Dissolution in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1264-1269	8.3	18
60	Effect of D2O on growth properties and chemical structure of annual ryegrass ( <i>Lolium multiflorum</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 2595-604	5.7	15
59	Controlled incorporation of deuterium into bacterial cellulose. <i>Cellulose</i> , <b>2014</b> , 21, 927-936	5.5	28
58	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> , <b>2014</b> , 21, 1015-1024	5.5	41
57	Comparison of changes in cellulose ultrastructure during different pretreatments of poplar. <i>Cellulose</i> , <b>2014</b> , 21, 2419-2431	5.5	37
56	Analysis of the solution structure of Thermosynechococcus elongatus photosystem I in n-dodecyl- $\beta$ -D-maltoside using small-angle neutron scattering and molecular dynamics simulation. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 550-551, 50-7	4.1	19
55	Effect of lignin content on changes occurring in poplar cellulose ultrastructure during dilute acid pretreatment. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 150	7.8	94
54	The Bio-SANS instrument at the High Flux Isotope Reactor of Oak Ridge National Laboratory. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 1238-1246	3.8	67
53	Reentrant condensation of lysozyme: Implications for studying dynamics of lysozyme in aqueous solutions of lithium chloride. <i>Biopolymers</i> , <b>2014</b> , 101, 624-9	2.2	2
52	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> , <b>2014</b> , 70, 773-6	1.1	2
51	Morphological changes in the cellulose and lignin components of biomass occur at different stages during steam pretreatment. <i>Cellulose</i> , <b>2014</b> , 21, 873-878	5.5	31
50	Secondary structure and rigidity in model proteins. <i>Soft Matter</i> , <b>2013</b> , 9, 9548-56	3.6	50
49	The effect of deuteration on the structure of bacterial cellulose. <i>Carbohydrate Research</i> , <b>2013</b> , 374, 82-82.9	4.0	40
48	Probing the consequences of antenna modification in cyanobacteria. <i>Photosynthesis Research</i> , <b>2013</b> , 118, 17-24	3.7	20
47	Coherent neutron scattering and collective dynamics in the protein, GFP. <i>Biophysical Journal</i> , <b>2013</b> , 105, 2182-7	2.9	20
46	Elastic and conformational softness of a globular protein. <i>Physical Review Letters</i> , <b>2013</b> , 110, 028104	7.4	40
45	Organization and flexibility of cyanobacterial thylakoid membranes examined by neutron scattering. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 3632-40	5.4	73

44	High photo-electrochemical activity of thylakoid/carbon nanotube composites for photosynthetic energy conversion. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1891	35.4	146
43	Temperature Dependence of Logarithmic-like Relaxational Dynamics of Hydrated tRNA. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 936-42	6.4	17
42	Excited-state dynamics of water-soluble polythiophene derivatives: temperature and side-chain length effects. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 14451-60	3.4	18
41	Sol-gel entrapped light harvesting antennas: immobilization and stabilization of chlorosomes for energy harvesting. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22582		11
40	Deuterium incorporation in biomass cell wall components by NMR analysis. <i>Analyst, The</i> , <b>2012</b> , 137, 1090-3	5.3	17
39	Dynamics of protein and its hydration water: neutron scattering studies on fully deuterated GFP. <i>Biophysical Journal</i> , <b>2012</b> , 103, 1566-75	2.9	101
38	Characterization of Morphology and Active Agent Mobility within Hybrid Silica Sol-Gel Composites. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 13972-13979	3.8	4
37	Apparent Decoupling of the Dynamics of a Protein from the Dynamics of its Aqueous Solvent. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 380-5	6.4	22
36	Role of methyl groups in dynamics and evolution of biomolecules. <i>Journal of Biological Physics</i> , <b>2012</b> , 38, 497-505	1.6	20
35	Neutron Technologies for Bioenergy Research. <i>Industrial Biotechnology</i> , <b>2012</b> , 8, 209-216	1.3	15
34	Sunlight Energy Conversion Via Organics		4
33	Supramolecular assembly of biohybrid photoconversion systems. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 181-188	35.4	16
32	Localized entrapment of green fluorescent protein within nanostructured polymer films. <i>Soft Matter</i> , <b>2011</b> , 7, 11453	3.6	7
31	Self-similar multiscale structure of lignin revealed by neutron scattering and molecular dynamics simulation. <i>Physical Review E</i> , <b>2011</b> , 83, 061911	2.4	61
30	Small angle neutron scattering reveals pH-dependent conformational changes in <i>Trichoderma reesei</i> cellobiohydrolase I: implications for enzymatic activity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 32801-9	5.4	28
29	Development of Bacterial Cellulose Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1312, 1		2
28	Self-organized photosynthetic nanoparticle for cell-free hydrogen production. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 73-9	28.7	146
27	Breakdown of cell wall nanostructure in dilute acid pretreated biomass. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2329-35	6.9	126



26	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> , <b>2010</b> , 114, 13866-71	3.4	65
25	Investigation of detergent effects on the solution structure of spinach Light Harvesting Complex II. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 251, 012041	0.3	1
24	Mean-squared atomic displacements in hydrated lysozyme, native and denatured. <i>Journal of Biological Physics</i> , <b>2010</b> , 36, 291-7	1.6	34
23	Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3031-3038	15.6	31
22	SANS study of cellulose extracted from switchgrass. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2010</b> , 66, 1189-93		25
21	Investigating the structural flexibility of intrinsically disordered proteins. <i>FASEB Journal</i> , <b>2010</b> , 24, 684.80.9		
20	Metabolic prosthesis for oxygenation of ischemic tissue. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 528-31	5	3
19	A resorbable calcium-deficient hydroxyapatite hydrogel composite for osseous regeneration. <i>Cellulose</i> , <b>2009</b> , 16, 887-898	5.5	36
18	Characterization of sol-gel-encapsulated proteins using small-angle neutron scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2262-8	9.5	31
17	Insight into the structure of light-harvesting complex II and its stabilization in detergent solution. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 16377-83	3.4	31
16	A microbial fuel cell operating at low pH using the acidophile <i>Acidiphilium cryptum</i> . <i>Biotechnology Letters</i> , <b>2008</b> , 30, 1367-72	3	80
15	The application and use of chemical space mapping to interpret crystallization screening results. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2008</b> , 64, 1240-9		24
14	Small-angle X-ray scattering study of photosystem I-detergent complexes: implications for membrane protein crystallization. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4211-9	3.4	16
13	Biomimetic synthesis of calcium-deficient hydroxyapatite in a natural hydrogel. <i>Biomaterials</i> , <b>2006</b> , 27, 4661-70	15.6	279
12	Spectroscopy and Photochemistry of Spinach Photosystem I Entrapped and Stabilized in a Hybrid Organosilicate Glass. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 2654-2661	9.6	23
11	Effect of surface attachment on synthesis of bacterial cellulose. <i>Applied Biochemistry and Biotechnology</i> , <b>2005</b> , 121-124, 439-50	3.2	4
10	Effect of Surface Attachment on Synthesis of Bacterial Cellulose <b>2005</b> , 439-450		
9	Enhanced Photocatalytic Hydrogen Evolution by Covalent Attachment of Plastocyanin to Photosystem I. <i>Nano Letters</i> , <b>2004</b> , 4, 1815-1819	11.5	47



8	Palladium-bacterial cellulose membranes for fuel cells. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 18, 917-23	11.8	181
7	Laser-induced breakdown spectroscopy used to detect palladium and silver metal dispersed in bacterial cellulose membranes. <i>Applied Optics</i> , <b>2003</b> , 42, 6174-8	1.7	15
6	Properties of carbohydrate-metabolizing enzymes immobilized in sol-gel beads: stabilization of invertase and $\beta$ -glucosidase by Blue Dextran**. <i>Biotechnology Letters</i> , <b>2002</b> , 24, 783-790	3	15
5	The Nicotinamide Cofactors: Applications in Biotechnology. <i>ACS Symposium Series</i> , <b>2001</b> , 103-130	0.4	
4	Cloning and analysis of the genes for a novel electron-transferring flavoprotein from <i>Megasphaera elsdenii</i> . Expression and characterization of the recombinant protein. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 21015-24	5.4	24
3	Electron-transferring flavoprotein from <i>Megasphaera elsdenii</i> ; gene organisation and structural information. <i>Biochemical Society Transactions</i> , <b>1998</b> , 26, S214	5.1	
2	Cloning of electron-transferring flavoprotein from <i>Megasphaera elsdenii</i> . <i>Biochemical Society Transactions</i> , <b>1995</b> , 23, 379S	5.1	3
1	Protonation states in SARS-CoV-2 main protease mapped by neutron crystallography		1