

James F Conway

List of Publications by Year in descending order

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126
papers

7,935
citations

38660

50
h-index

54797

84
g-index

141
all docs

141
docs citations

141
times ranked

6834
citing authors

#	ARTICLE	IF	CITATIONS
1	The mitochondrial permeability transition phenomenon elucidated by cryo-EM reveals the genuine impact of calcium overload on mitochondrial structure and function. <i>Scientific Reports</i> , 2021, 11, 1037.	1.6	38
2	High-resolution asymmetric structure of a Fabâ€“virus complex reveals overlap with the receptor binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2025452118.	3.3	12
3	Potent neutralizing nanobodies resist convergent circulating variants of SARS-CoV-2 by targeting diverse and conserved epitopes. <i>Nature Communications</i> , 2021, 12, 4676.	5.8	74
4	Mobile Loops and Electrostatic Interactions Maintain the Flexible Tail Tube of Bacteriophage Lambda. <i>Journal of Molecular Biology</i> , 2020, 432, 384-395.	2.0	18
5	Protofilament Structure and Supramolecular Polymorphism of Aggregated Mutant Huntingtin Exon 1. <i>Journal of Molecular Biology</i> , 2020, 432, 4722-4744.	2.0	34
6	Role of the Herpes Simplex Virus CVSC Proteins at the Capsid Portal Vertex. <i>Journal of Virology</i> , 2020, 94, .	1.5	13
7	Should Virus Capsids Assemble Perfectly? Theory and Observation of Defects. <i>Biophysical Journal</i> , 2020, 119, 1781-1790.	0.2	3
8	A Novel Packing for A-Form DNA in an Icosahedral Virus. <i>Biophysical Journal</i> , 2020, 118, 295a.	0.2	0
9	A packing for A-form DNA in an icosahedral virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22591-22597.	3.3	23
10	Filling Adeno-Associated Virus Capsids: Estimating Success by Cryo-Electron Microscopy. <i>Human Gene Therapy</i> , 2019, 30, 1449-1460.	1.4	25
11	Capsid expansion of bacteriophage T5 revealed by high resolution cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21037-21046.	3.3	27
12	Mitochondrial fatty acid oxidation and the electron transport chain comprise a multifunctional mitochondrial protein complex. <i>Journal of Biological Chemistry</i> , 2019, 294, 12380-12391.	1.6	74
13	Single-Cell Lymphocyte Heterogeneity in Advanced Cutaneous T-cell Lymphoma Skin Tumors. <i>Clinical Cancer Research</i> , 2019, 25, 4443-4454.	3.2	87
14	Proteomic profiling of extracellular vesicles released from vascular smooth muscle cells during initiation of phosphate-induced mineralization. <i>Connective Tissue Research</i> , 2018, 59, 55-61.	1.1	22
15	The Apical Region of the Herpes Simplex Virus Major Capsid Protein Promotes Capsid Maturation. <i>Journal of Virology</i> , 2018, 92, .	1.5	4
16	Cryoelectron Microscopy Maps of Human Papillomavirus 16 Reveal L2 Densities and Heparin Binding Site. <i>Structure</i> , 2017, 25, 253-263.	1.6	56
17	High affinity anchoring of the decoration protein pb10 onto the bacteriophage T5 capsid. <i>Scientific Reports</i> , 2017, 7, 41662.	1.6	21
18	The C Terminus of the Herpes Simplex Virus UL25 Protein Is Required for Release of Viral Genomes from Capsids Bound to Nuclear Pores. <i>Journal of Virology</i> , 2017, 91, .	1.5	30

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19	Herpesvirus Capsid Assembly and DNA Packaging. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2017, 223, 119-142.	1.0	113
20	Capsids and Genomes of Jumbo-Sized Bacteriophages Reveal the Evolutionary Reach of the HK97 Fold. <i>MBio</i> , 2017, 8, .	1.8	65
21	Cryo-EM maps reveal five-fold channel structures and their modification by gatekeeper mutations in the parvovirus minute virus of mice (MVM) capsid. <i>Virology</i> , 2017, 510, 216-223.	1.1	12
22	Honey Bee Deformed Wing Virus Structures Reveal that Conformational Changes Accompany Genome Release. <i>Journal of Virology</i> , 2017, 91, .	1.5	28
23	High-Resolution Structure Analysis of Antibody V5 and U4 Conformational Epitopes on Human Papillomavirus 16. <i>Viruses</i> , 2017, 9, 374.	1.5	11
24	Transmission electron microscopy for the evaluation and optimization of crystal growth. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 603-615.	1.1	29
25	Extensive subunit contacts underpin herpesvirus capsid stability and interior-to-exterior allostery. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 531-539.	3.6	64
26	Near-Atomic Resolution Structure of a Highly Neutralizing Fab Bound to Canine Parvovirus. <i>Journal of Virology</i> , 2016, 90, 9733-9742.	1.5	27
27	The novel asymmetric entry intermediate of a picornavirus captured with nanodiscs. <i>Science Advances</i> , 2016, 2, e1501929.	4.7	46
28	Correct Assembly of the Bacteriophage T5 Procapsid Requires Both the Maturation Protease and the Portal Complex. <i>Journal of Molecular Biology</i> , 2016, 428, 165-181.	2.0	18
29	Ff-nano, short functionalized nanorods derived from Ff (f1, fd, or M13) filamentous bacteriophage. <i>Frontiers in Microbiology</i> , 2015, 6, 316.	1.5	22
30	The Enterovirus 71 Procapsid Binds Neutralizing Antibodies and Rescues Virus Infection <i>In Vitro</i> . <i>Journal of Virology</i> , 2015, 89, 1900-1908.	1.5	29
31	A Cryo-Electron Microscopy Study Identifies the Complete H16.V5 Epitope and Reveals Global Conformational Changes Initiated by Binding of the Neutralizing Antibody Fragment. <i>Journal of Virology</i> , 2015, 89, 1428-1438.	1.5	54
32	Structural comparison of four different antibodies interacting with human papillomavirus 16 and mechanisms of neutralization. <i>Virology</i> , 2015, 483, 253-263.	1.1	47
33	The A, B, Cs of Herpesvirus Capsids. <i>Viruses</i> , 2015, 7, 899-914.	1.5	57
34	The Putative Herpes Simplex Virus 1 Chaperone Protein UL32 Modulates Disulfide Bond Formation during Infection. <i>Journal of Virology</i> , 2015, 89, 443-453.	1.5	31
35	Inducible Polymerization and Two-Dimensional Assembly of the Repeats-in-Toxin (RTX) Domain from the <i>Pseudomonas aeruginosa</i> Alkaline Protease. <i>Biochemistry</i> , 2014, 53, 6452-6462.	1.2	6
36	Metastable Intermediates as Stepping Stones on the Maturation Pathways of Viral Capsids. <i>MBio</i> , 2014, 5, e02067.	1.8	13

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37	Transmission electron microscopy as a tool for nanocrystal characterization pre- and post-injector. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130322.	1.8	23
38	Kinetic and Structural Analysis of Coxsackievirus B3 Receptor Interactions and Formation of the A-Particle. <i>Journal of Virology</i> , 2014, 88, 5755-5765.	1.5	42
39	Use of transmission electron microscopy to identify nanocrystals of challenging protein targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8470-8475.	3.3	51
40	Structure of the Pseudorabies Virus Capsid: Comparison with Herpes Simplex Virus Type 1 and Differential Binding of Essential Minor Proteins. <i>Journal of Molecular Biology</i> , 2013, 425, 3415-3428.	2.0	47
41	CryoTEM study of effects of phosphorylation on the hierarchical assembly of porcine amelogenin and its regulation of mineralization in vitro. <i>Journal of Structural Biology</i> , 2013, 183, 250-257.	1.3	26
42	A Two-State Cooperative Expansion Converts the Procapsid Shell of Bacteriophage T5 into a Highly Stable Capsid Isomorphous to the Final Virion Head. <i>Journal of Molecular Biology</i> , 2013, 425, 1999-2014.	2.0	22
43	The Enterovirus 71 A-particle Forms a Gateway to Allow Genome Release: A CryoEM Study of Picornavirus Uncoating. <i>PLoS Pathogens</i> , 2013, 9, e1003240.	2.1	118
44	A Strain-Specific Epitope of Enterovirus 71 Identified by Cryo-Electron Microscopy of the Complex with Fab from Neutralizing Antibody. <i>Journal of Virology</i> , 2013, 87, 11363-11370.	1.5	53
45	Structures of the Procapsid and Mature Virion of Enterovirus 71 Strain 1095. <i>Journal of Virology</i> , 2013, 87, 7637-7645.	1.5	37
46	Cluster J Mycobacteriophages: Intron Splicing in Capsid and Tail Genes. <i>PLoS ONE</i> , 2013, 8, e69273.	1.1	28
47	Calcium-induced Folding and Stabilization of the <i>Pseudomonas aeruginosa</i> Alkaline Protease. <i>Journal of Biological Chemistry</i> , 2012, 287, 4311-4322.	1.6	50
48	Cryo-TEM Study on Hierarchical Self-assembly of Amelogenin and Regulation of Biomineralization at the Nanoscale. <i>Microscopy and Microanalysis</i> , 2012, 18, 1588-1589.	0.2	0
49	Damaged DNA induced UV-damaged DNA-binding protein (UV-DDB) dimerization and its roles in chromatinized DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2737-46.	3.3	74
50	Role of the Propeptide in Controlling Conformation and Assembly State of Hepatitis B Virus e-Antigen. <i>Journal of Molecular Biology</i> , 2011, 409, 202-213.	2.0	21
51	Residues of the UL25 Protein of Herpes Simplex Virus That Are Required for Its Stable Interaction with Capsids. <i>Journal of Virology</i> , 2011, 85, 4875-4887.	1.5	52
52	Cryogenic Transmission Electron Microscopy Study of Amelogenin Self-Assembly at Different pH. <i>Cells Tissues Organs</i> , 2011, 194, 166-170.	1.3	15
53	Disulfide Bond Formation Contributes to Herpes Simplex Virus Capsid Stability and Retention of Pentons. <i>Journal of Virology</i> , 2011, 85, 8625-8634.	1.5	20
54	The Herpes Simplex Virus 1 UL17 Protein Is the Second Constituent of the Capsid Vertex-Specific Component Required for DNA Packaging and Retention. <i>Journal of Virology</i> , 2011, 85, 7513-7522.	1.5	95

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55	Hierarchical self-assembly of amelogenin and the regulation of biomineralization at the nanoscale. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14097-14102.	3.3	175
56	The tripartite capsid gene of Salmonella phage Gifsy-2 yields a capsid assembly pathway engaging features from HK97 and λ . Virology, 2010, 402, 355-365.	1.1	15
57	Sar1 assembly regulates membrane constriction and ER export. Journal of Cell Biology, 2010, 190, 115-128.	2.3	75
58	Cryo-transmission electron microscopy of Ag nanoparticles grown on an ionic liquid substrate. Journal of Materials Research, 2010, 25, 1264-1271.	1.2	6
59	Labeling and Localization of the Herpes Simplex Virus Capsid Protein UL25 and Its Interaction with the Two Triplexes Closest to the Penton. Journal of Molecular Biology, 2010, 397, 575-586.	2.0	69
60	<i>In Vitro</i> Assembly of the T=13 Procapsid of Bacteriophage T5 with Its Scaffolding Domain. Journal of Virology, 2010, 84, 9350-9358.	1.5	31
61	Polyglutamine disruption of the huntingtin exon 1 N terminus triggers a complex aggregation mechanism. Nature Structural and Molecular Biology, 2009, 16, 380-389.	3.6	384
62	Structure and Energetics of Encapsidated DNA in Bacteriophage HK97 Studied by Scanning Calorimetry and Cryo-electron Microscopy. Journal of Molecular Biology, 2009, 391, 471-483.	2.0	52
63	Asymmetric EM Reveals New Twists in Phage ϕ 29 Biology. Structure, 2008, 16, 831-832.	1.6	3
64	Virus Capsid Expansion Driven by the Capture of Mobile Surface Loops. Structure, 2008, 16, 1491-1502.	1.6	33
65	A thermally induced phase transition in a viral capsid transforms the hexamers, leaving the pentamers unchanged. Journal of Structural Biology, 2007, 158, 224-232.	1.3	36
66	Arabidopsis katanin binds microtubules using a multimeric microtubule-binding domain. Plant Physiology and Biochemistry, 2007, 45, 867-877.	2.8	45
67	Genomic and structural analysis of Syn9, a cyanophage infecting marine Prochlorococcus and Synechococcus. Environmental Microbiology, 2007, 9, 1675-1695.	1.8	158
68	Epitope Diversity of Hepatitis B Virus Capsids: Quasi-equivalent Variations in Spike Epitopes and Binding of Different Antibodies to the same Epitope. Journal of Molecular Biology, 2006, 355, 562-576.	2.0	25
69	Structure of the Dodecahedral Penton Particle from Human Adenovirus Type 3. Journal of Molecular Biology, 2006, 356, 510-520.	2.0	45
70	Bacteriophage T5 Structure Reveals Similarities with HK97 and T4 Suggesting Evolutionary Relationships. Journal of Molecular Biology, 2006, 361, 993-1002.	2.0	107
71	Human Kinetochore-associated Kinesin CENP-E Visualized at 17 Å Resolution Bound to Microtubules. Journal of Molecular Biology, 2006, 362, 203-211.	2.0	12
72	A Free Energy Cascade with Locks Drives Assembly and Maturation of Bacteriophage HK97 Capsid. Journal of Molecular Biology, 2006, 364, 512-525.	2.0	45

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73	Time-resolved molecular dynamics of bacteriophage HK97 capsid maturation interpreted by electron cryo-microscopy and X-ray crystallography. <i>Journal of Structural Biology</i> , 2006, 153, 300-306.	1.3	54
74	Linkage Between Proteolysis and Conformational Change in Virus Assembly: Insights from Cryo-Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2006, 12, 396-397.	0.2	0
75	Shared architecture of bacteriophage SPO1 and herpesvirus capsids. <i>Current Biology</i> , 2006, 16, R11-R13.	1.8	37
76	Shared architecture of bacteriophage SPO1 and herpesvirus capsids. <i>Current Biology</i> , 2006, 16, 440.	1.8	2
77	Capsid Conformational Sampling in HK97 Maturation Visualized by X-Ray Crystallography and Cryo-EM. <i>Structure</i> , 2006, 14, 1655-1665.	1.6	58
78	Development of the dodecahedral penton particle from adenovirus 3 for therapeutic application. <i>Journal of General Virology</i> , 2006, 87, 2901-2905.	1.3	11
79	Crosslinking renders bacteriophage HK97 capsid maturation irreversible and effects an essential stabilization. <i>EMBO Journal</i> , 2005, 24, 1352-1363.	3.5	60
80	A quasi-atomic model of human adenovirus type 5 capsid. <i>EMBO Journal</i> , 2005, 24, 1645-1654.	3.5	130
81	Virus maturation: dynamics and mechanism of a stabilizing structural transition that leads to infectivity. <i>Current Opinion in Structural Biology</i> , 2005, 15, 227-236.	2.6	160
82	Structure, Assembly, and Antigenicity of Hepatitis B Virus Capsid Proteins. <i>Advances in Virus Research</i> , 2005, 64, 125-164.	0.9	83
83	Structure of the Mature P3-virus Particle Complex of Cauliflower Mosaic Virus Revealed by Cryo-electron Microscopy. <i>Journal of Molecular Biology</i> , 2005, 346, 267-277.	2.0	63
84	Structure of an Insect Parvovirus (<i>Junonia coenia</i> Densovirus) Determined by Cryo-electron Microscopy. <i>Journal of Molecular Biology</i> , 2005, 347, 791-801.	2.0	26
85	Control of Virus Assembly: HK97 "Whiffleball" Mutant Capsids Without Pentons. <i>Journal of Molecular Biology</i> , 2005, 348, 167-182.	2.0	33
86	Spectral signal-to-noise ratio and resolution assessment of 3D reconstructions. <i>Journal of Structural Biology</i> , 2005, 149, 243-255.	1.3	51
87	Control of Crosslinking by Quaternary Structure Changes during Bacteriophage HK97 Maturation. <i>Molecular Cell</i> , 2004, 14, 559-569.	4.5	47
88	Molecular dynamics of protein complexes from four-dimensional cryo-electron microscopy. <i>Journal of Structural Biology</i> , 2004, 147, 291-301.	1.3	37
89	Macro Molecular Dynamics by Multiple Particle Analysis: Classifying Distinct Conformational States by Generalized Projection Matching. <i>Microscopy and Microanalysis</i> , 2004, 10, 30-31.	0.2	0
90	Molecular Mechanisms In Bacteriophage T7 Procapsid Assembly, Maturation, And Dna Containment. <i>Advances in Protein Chemistry</i> , 2003, 64, 301-323.	4.4	52

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91	A Second Symmetry Mismatch at the Portal Vertex of Bacteriophage T7: 8-fold Symmetry in the Procapsid Core. <i>Journal of Molecular Biology</i> , 2003, 327, 1-6.	2.0	49
92	Diversity of core antigen epitopes of hepatitis B virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10884-10889.	3.3	69
93	Characterization of a Conformational Epitope on Hepatitis B Virus Core Antigen and Quasiequivalent Variations in Antibody Binding. <i>Journal of Virology</i> , 2003, 77, 6466-6473.	1.5	72
94	The morphogenic linker peptide of HBV capsid protein forms a mobile array on the interior surface. <i>EMBO Journal</i> , 2002, 21, 876-884.	3.5	80
95	Virus Maturation Involving Large Subunit Rotations and Local Refolding. <i>Science</i> , 2001, 292, 744-748.	6.0	184
96	Novel fold and capsid-binding properties of the lambda-phage display platform protein gpD. <i>Nature Structural Biology</i> , 2000, 7, 230-237.	9.7	140
97	The cellular receptor to human rhinovirus 2 binds around the 5-fold axis and not in the canyon: a structural view. <i>EMBO Journal</i> , 2000, 19, 6317-6325.	3.5	129
98	Vive La Différence! Mapping Macromolecular Complexes by Generalized Difference Imaging. <i>Microscopy and Microanalysis</i> , 2000, 6, 252-253.	0.2	0
99	Molecular Tectonic Model of Virus Structural Transitions: the Putative Cell Entry States of Poliovirus. <i>Journal of Virology</i> , 2000, 74, 1342-1354.	1.5	224
100	Maturation Dynamics of a Viral Capsid. <i>Cell</i> , 2000, 100, 253-263.	13.5	136
101	Tetrairidium, a Four-Atom Cluster, Is Readily Visible as a Density Label in Three-Dimensional Cryo-EM Maps of Proteins at 10 ^Å Resolution. <i>Journal of Structural Biology</i> , 1999, 127, 169-176.	1.3	56
102	Methods for Reconstructing Density Maps of Single Particles from Cryoelectron Micrographs to Subnanometer Resolution. <i>Journal of Structural Biology</i> , 1999, 128, 106-118.	1.3	149
103	Parallel computing strategies for determining viral capsid structure by cryoelectron microscopy. <i>IEEE Computational Science and Engineering</i> , 1998, 5, 76-91.	0.6	10
104	Shared motifs of the capsid proteins of hepadnaviruses and retroviruses suggest a common evolutionary origin. <i>FEBS Letters</i> , 1998, 431, 301-304.	1.3	23
105	Hepatitis B virus capsid: localization of the putative immunodominant loop (residues 78 to 83) on the capsid surface, and implications for the distinction between c and e-antigens. <i>Journal of Molecular Biology</i> , 1998, 279, 1111-1121.	2.0	87
106	Localization of the N terminus of hepatitis B virus capsid protein by peptide-based difference mapping from cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 14622-14627.	3.3	31
107	Proteolytic Control of Bacteriophage HK97 Capsid Maturation.. <i>Microscopy and Microanalysis</i> , 1998, 4, 984-985.	0.2	0
108	Localization of the C terminus of the assembly domain of hepatitis B virus capsid protein: Implications for morphogenesis and organization of encapsidated RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 9556-9561.	3.3	164

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109	Prohead Perestroika: Bacteriophage T7 Capsid Before and After Maturation. <i>Microscopy and Microanalysis</i> , 1997, 3, 93-94.	0.2	0
110	The making and breaking of symmetry in virus capsid assembly: glimpses of capsid biology from cryoelectron microscopy. <i>FASEB Journal</i> , 1997, 11, 733-742.	0.2	48
111	Visualization of a 4-helix bundle in the hepatitis B virus capsid by cryo-electron microscopy. <i>Nature</i> , 1997, 386, 91-94.	13.7	453
112	Dimorphism of Hepatitis B Virus Capsids Is Strongly Influenced by the C-Terminus of the Capsid Protein. <i>Biochemistry</i> , 1996, 35, 7412-7421.	1.2	263
113	Stoichiometry and Domainal Organization of the Long Tail-fiber of Bacteriophage T4: A Hinged Viral Adhesin. <i>Journal of Molecular Biology</i> , 1996, 260, 767-780.	2.0	96
114	Digital Image Processing of Electron Micrographs: The PIC System-III. <i>Journal of Structural Biology</i> , 1996, 116, 61-67.	1.3	46
115	Visualization of Three-Dimensional Density Maps Reconstructed from Cryoelectron Micrographs of Viral Capsids. <i>Journal of Structural Biology</i> , 1996, 116, 200-208.	1.3	38
116	Proteolytic and Conformational Control of Virus Capsid Maturation: The Bacteriophage HK97 System. <i>Journal of Molecular Biology</i> , 1995, 253, 86-99.	2.0	177
117	Filamentous Hemagglutinin of <i>Bordetella pertussis</i> . <i>Journal of Molecular Biology</i> , 1994, 241, 110-124.	2.0	109
118	Finding a needle in a haystack: detection of a small protein (the 12-kDa VP26) in a large complex (the Tj ETQq0 0 0 rgBT /Overlock 10 T United States of America, 1994, 91, 5652-5656.	3.3	122
119	The Short Tail-Fiber of Bacteriophage T4: Molecular Structure and a Mechanism for Its Conformational Transition. <i>Virology</i> , 1993, 194, 117-127.	1.1	47
120	The Effects of Radiation Damage on the Structure of Frozen Hydrated HSV-1 Capsids. <i>Journal of Structural Biology</i> , 1993, 111, 222-233.	1.3	115
121	Three-stranded β -fibrous proteins: the heptad repeat and its implications for structure. <i>International Journal of Biological Macromolecules</i> , 1991, 13, 14-16.	3.6	80
122	Structural features in the heptad substructure and longer range repeats of two-stranded β -fibrous proteins. <i>International Journal of Biological Macromolecules</i> , 1990, 12, 328-334.	3.6	161
123	An Estimate of the Mean Length of Collagen Fibrils in Rat Tail-Tendon as a Function of age. <i>Connective Tissue Research</i> , 1989, 19, 51-62.	1.1	121
124	Structure and Spatial Organisation of Intermediate Filament and Nuclear Lamin Molecules. <i>Springer Series in Biophysics</i> , 1989, , 140-149.	0.4	1
125	Intermediate filament structure: 3. Analysis of sequence homologies. <i>International Journal of Biological Macromolecules</i> , 1988, 10, 79-98.	3.6	177
126	Nuclear lamin proteins: common structures for paracrystalline, filamentous and lattice forms. <i>International Journal of Biological Macromolecules</i> , 1987, 9, 137-145.	3.6	38