

# Rhonda M Stroud

## List of Publications by Year in descending order

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368  
papers

23,640  
citations

7096

78  
h-index

9345

143  
g-index

370  
all docs

370  
docs citations

370  
times ranked

19864  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of a Glycerol-Conducting Channel and the Basis for Its Selectivity. <i>Science</i> , 2000, 290, 481-486.	12.6	938
2	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
3	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
4	Incorporation of Homogeneous, Nanoscale MnO <sub>2</sub> within Ultraporous Carbon Structures via Self-Limiting Electroless Deposition: Implications for Electrochemical Capacitors. <i>Nano Letters</i> , 2007, 7, 281-286.	9.1	565
5	Efficiency of signalling through cytokine receptors depends critically on receptor orientation. <i>Nature</i> , 1998, 395, 511-516.	27.8	545
6	The Signal Recognition Particle. <i>Annual Review of Biochemistry</i> , 2001, 70, 755-775.	11.1	541
7	Site-directed ligand discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9367-9372.	7.1	450
8	Crystal structure of the HIV-1 integrase catalytic core and C-terminal domains: A model for viral DNA binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8233-8238.	7.1	387
9	Silica Sol as a Nanoglue: Flexible Synthesis of Composite Aerogels. <i>Science</i> , 1999, 284, 622-624.	12.6	366
10	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343
11	Atomic structure of thymidylate synthase: target for rational drug design. <i>Science</i> , 1987, 235, 448-455.	12.6	340
12	Structure-based discovery of inhibitors of thymidylate synthase. <i>Science</i> , 1993, 259, 1445-1450.	12.6	336
13	How To Make Electrocatalysts More Active for Direct Methanol Oxidation Avoid PtRu Bimetallic Alloys!. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9772-9776.	2.6	333
14	Crystal structure of human aquaporin 4 at 1.8 Å, and its mechanism of conductance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7437-7442.	7.1	297
15	The structure of bovine trypsin : Electron density maps of the inhibited enzyme at 5 Å... and at 2.7 Å... resolution. <i>Journal of Molecular Biology</i> , 1974, 83, 185-208.	4.2	292
16	Impact Features on Stardust: Implications for Comet 81P/Wild 2 Dust. <i>Science</i> , 2006, 314, 1716-1719.	12.6	286
17	Crystal Structure of the Signal Sequence Binding Subunit of the Signal Recognition Particle. <i>Cell</i> , 1998, 94, 181-191.	28.9	277
18	Substrate twinning activates the signal recognition particle and its receptor. <i>Nature</i> , 2004, 427, 215-221.	27.8	270

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19	Regulation of an Enzyme by Phosphorylation at the Active Site. <i>Science</i> , 1990, 249, 1012-1016.	12.6	264
20	Nicotinic acetylcholine receptor and superfamily of ligand-gated ion channels. <i>Biochemistry</i> , 1990, 29, 11009-11023.	2.5	264
21	Catalytic mechanism of NADP+-dependent isocitrate dehydrogenase: implications from the structures of magnesium-isocitrate and NADP+ complexes. <i>Biochemistry</i> , 1991, 30, 8671-8678.	2.5	263
22	Structure, multiple site binding, and segmental accommodation in thymidylate synthase on binding dUMP and an anti-folate. <i>Biochemistry</i> , 1990, 29, 6964-6977.	2.5	262
23	Structure at 2.5 Å of a designed peptide that maintains solubility of membrane proteins. <i>Science</i> , 1993, 262, 734-738.	12.6	262
24	Crystal structure of colicin Ia. <i>Nature</i> , 1997, 385, 461-464.	27.8	250
25	The channel architecture of aquaporin 0 at a 2.2-Å resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14045-14050.	7.1	248
26	Structure of the conserved GTPase domain of the signal recognition particle. <i>Nature</i> , 1997, 385, 361-364.	27.8	228
27	Solâ€Gel-Derived Ceria Nanoarchitectures:â€ Synthesis, Characterization, and Electrical Properties. <i>Chemistry of Materials</i> , 2006, 18, 50-58.	6.7	219
28	Structure of a bacterial enzyme regulated by phosphorylation, isocitrate dehydrogenase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 8635-8639.	7.1	215
29	Presence of antisite disorder and its characterization in the predicted half-metalCo2MnSi. <i>Physical Review B</i> , 2002, 66, .	3.2	214
30	Structure and specific binding of trypsin: Comparison of inhibited derivatives and a model for substrate binding. <i>Journal of Molecular Biology</i> , 1974, 83, 209-230.	4.2	207
31	Origin of high transport spin polarization inLa0.7Sr0.3MnO3:Direct evidence for minority spin states. <i>Physical Review B</i> , 2001, 63, .	3.2	204
32	Enhancing the Activity of Fuel-cell Reactions by Designing Three-dimensional Nanostructured Architectures:â€ Catalyst-modified Carbonâ€Silica Composite Aerogels. <i>Nano Letters</i> , 2002, 2, 235-240.	9.1	200
33	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. <i>Science</i> , 2006, 314, 1731-1735.	12.6	200
34	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	12.6	189
35	Ultra-primitive interplanetary dust particles from the comet 26P/Griggâ€Skjellerup dust stream collection. <i>Earth and Planetary Science Letters</i> , 2009, 288, 44-57.	4.4	187
36	Establishing a molecular relationship between chondritic and cometary organic solids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19171-19176.	7.1	181

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37	Function of human Rh based on structure of RhCG at 2.1 Å. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9638-9643.	7.1	178
38	A stable Ti-based quasicrystal. Applied Physics Letters, 1997, 70, 3230-3232.	3.3	175
39	Design of potent selective zinc-mediated serine protease inhibitors. Nature, 1998, 391, 608-612.	27.8	164
40	Nanocrystalline Iron Oxide Aerogels as Mesoporous Magnetic Architectures. Journal of the American Chemical Society, 2004, 126, 16879-16889.	13.7	164
41	The nature, origin and modification of insoluble organic matter in chondrites, the major source of Earth's C and N. Chemie Der Erde, 2017, 77, 227-256.	2.0	163
42	A Family of Protein-Cutting Proteins. Scientific American, 1974, 231, 74-88.	1.0	156
43	Lateral opening of a translocon upon entry of protein suggests the mechanism of insertion into membranes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17182-17187.	7.1	155
44	Plastic adaptation toward mutations in proteins: Structural comparison of thymidylate synthases. Proteins: Structure, Function and Bioinformatics, 1990, 8, 315-333.	2.6	154
45	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	12.6	152
46	Electronic connection to the interior of a mesoporous insulator with nanowires of crystalline RuO <sub>2</sub> . Nature, 2000, 406, 169-172.	27.8	150
47	Using Three Dimensions in Catalytic Mesoporous Nanoarchitectures. Nano Letters, 2002, 2, 545-549.	9.1	147
48	Structural basis for conductance by the archaeal aquaporin AqpM at 1.68 Å. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18932-18937.	7.1	146
49	TARP Auxiliary Subunits Switch AMPA Receptor Antagonists into Partial Agonists. Science, 2007, 318, 815-817.	12.6	144
50	Minimizing damage during FIB sample preparation of soft materials. Journal of Microscopy, 2012, 245, 288-301.	1.8	144
51	The Crystal and Molecular Structure of DIP-inhibited Bovine Trypsin at 2.7 Å Resolution. Cold Spring Harbor Symposia on Quantitative Biology, 1972, 36, 125-140.	1.1	140
52	Characterization of Presolar Silicate and Oxide Grains in Primitive Carbonaceous Chondrites. Astrophysical Journal, 2007, 656, 1223-1240.	4.5	136
53	Comparing Wild 2 particles to chondrites and IDPs. Meteoritics and Planetary Science, 2008, 43, 261-272.	1.6	136
54	Plasmonic enhancement of visible-light water splitting with Au-TiO <sub>2</sub> composite aerogels. Nanoscale, 2013, 5, 8073.	5.6	130

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55	Passivated Iron as Core-Shell Nanoparticles. <i>Chemistry of Materials</i> , 2003, 15, 3245-3246.	6.7	123
56	A designed four helix bundle protein with native-like structure. <i>Nature Structural Biology</i> , 1997, 4, 1039-1046.	9.7	119
57	Colloidal Gold Aerogels: Preparation, Properties, and Characterization. <i>Langmuir</i> , 1999, 15, 674-681.	3.5	116
58	The accuracy of refined protein structures: comparison of two independently refined models of bovine trypsin. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1979, 35, 1861-1874.	0.4	113
59	Crystal structure of human thymidylate synthase: a structural mechanism for guiding substrates into the active site. <i>Biochemistry</i> , 1995, 34, 16279-16287.	2.5	113
60	COORDINATED ANALYSES OF PRESOLAR GRAINS IN THE ALLAN HILLS 77307 AND QUEEN ELIZABETH RANGE 99177 METEORITES. <i>Astrophysical Journal</i> , 2010, 719, 166-189.	4.5	113
61	Domain Flexibility in Retroviral Proteases: Structural Implications for Drug Resistant Mutations. <i>Biochemistry</i> , 1998, 37, 2607-2621.	2.5	112
62	Hydrogenation of titanium-based quasicrystals. <i>Physical Review B</i> , 1995, 51, 12026-12029.	3.2	110
63	Magnetic, structural, and transport properties of thin film and single crystal Co <sub>2</sub> MnSi. <i>Applied Physics Letters</i> , 2001, 79, 4396-4398.	3.3	110
64	Mechanisms of Zymogen Activation. <i>Annual Review of Biophysics and Bioengineering</i> , 1977, 6, 177-193.	5.3	109
65	The Effect of Preparation Conditions on Raman and Photoluminescence of Monolayer WS <sub>2</sub> . <i>Scientific Reports</i> , 2016, 6, 35154.	3.3	107
66	Stable Ti-based quasicrystal offers prospect for improved hydrogen storage. <i>Applied Physics Letters</i> , 1996, 69, 2998-3000.	3.3	103
67	Solvent structure in crystals of trypsin determined by X-ray and neutron diffraction. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 12, 203-222.	2.6	102
68	Pairwise specificity and sequential binding in enzyme catalysis: thymidylate synthase. <i>Biochemistry</i> , 1990, 29, 6977-6986.	2.5	100
69	Structure of Bovine Pancreatic Cholesterol Esterase at 1.6 Å: Novel Structural Features Involved in Lipase Activation. <i>Biochemistry</i> , 1998, 37, 5107-5117.	2.5	100
70	Isotopic anomalies in organic nanoglobules from Comet 81P/Wild 2: Comparison to Murchison nanoglobules and isotopic anomalies induced in terrestrial organics by electron irradiation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4454-4470.	3.9	100
71	Episelection: Novel Ki .apprx. Nanomolar Inhibitors of Serine Proteases Selected by Binding or Chemistry on an Enzyme Surface. <i>Biochemistry</i> , 1995, 34, 8264-8280.	2.5	99
72	Polymorphism in Presolar Al <sub>2</sub> O <sub>3</sub> Grains from Asymptotic Giant Branch Stars. <i>Science</i> , 2004, 305, 1455-1457.	12.6	90

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73	Signal sequence recognition and protein targeting. <i>Current Opinion in Structural Biology</i> , 1999, 9, 754-759.	5.7	87
74	Reduction of Spin Injection Efficiency by Interface Defect Spin Scattering in ZnMnSe/AlGaAs <sup>+</sup> GaAs Spin-Polarized Light-Emitting Diodes. <i>Physical Review Letters</i> , 2002, 89, 166602.	7.8	86
75	Refined Structures of Substrate-bound and Phosphate-bound Thymidylate Synthase from <i>Lactobacillus casei</i> . <i>Journal of Molecular Biology</i> , 1993, 232, 1101-1116.	4.2	85
76	Synthesis of Nanocrystalline Bismuth in Reverse Micelles. <i>Journal of the American Chemical Society</i> , 2000, 122, 7114-7115.	13.7	85
77	Silica Nanoarchitectures Incorporating Self-Organized Protein Superstructures with Gas-Phase Bioactivity. <i>Nano Letters</i> , 2003, 3, 1463-1467.	9.1	84
78	Mechanistic Diversity of Cytokine Receptor Signaling Across Cell Membranes. <i>Science Signaling</i> , 2004, 2004, re7-re7.	3.6	84
79	Functional changes in the structure of the SRP GTPase on binding GDP and Mg <sup>2+</sup> +GDP. <i>Nature Structural Biology</i> , 1999, 6, 793-801.	9.7	83
80	Determination of Interface Atomic Structure and Its Impact on Spin Transport Using Z-Contrast Microscopy and Density-Functional Theory. <i>Physical Review Letters</i> , 2006, 96, 196101.	7.8	78
81	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 904-928.	1.6	78
82	The Structural Mechanism for Half-the-Sites Reactivity in an Enzyme, Thymidylate Synthase, Involves a Relay of Changes between Subunits. <i>Biochemistry</i> , 1999, 38, 13829-13836.	2.5	77
83	Comet 81P/Wild 2: The size distribution of finer (sub- $10^{-4}$ m) dust collected by the Stardust spacecraft. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1409-1428.	1.6	76
84	Oxidation-stable plasmonic copper nanoparticles in photocatalytic TiO <sub>2</sub> nanoarchitectures. <i>Nanoscale</i> , 2017, 9, 11720-11729.	5.6	76
85	Discovery of a Significant Optical Chromatographic Difference between Spores of <i>Bacillus anthracis</i> and Its Close Relative, <i>Bacillus thuringiensis</i> . <i>Analytical Chemistry</i> , 2006, 78, 3221-3225.	6.5	75
86	Water-mediated substrate/product discrimination: The product complex of thymidylate synthase at 1.83 Å. <i>Biochemistry</i> , 1994, 33, 1502-1511.	2.5	74
87	The additivity of substrate fragments in enzyme-ligand binding. <i>Structure</i> , 1998, 6, 839-848.	3.3	74
88	Coordinated isotopic and mineralogic analyses of planetary materials enabled by in situ lift-out with a focused ion beam scanning electron microscope. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1373-1386.	1.6	74
89	Structural context shapes the aquaporin selectivity filter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17164-17169.	7.1	74
90	A TEM study of thermally modified comet 81P/Wild 2 dust particles by interactions with the aerogel matrix during the Stardust capture process. <i>Meteoritics and Planetary Science</i> , 2008, 43, 97-120.	1.6	73

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91	A cometary building block in a primitive asteroidal meteorite. <i>Nature Astronomy</i> , 2019, 3, 659-666.	10.1	73
92	Difference Fourier refinement of the structure of DIP-trypsin at 1.5 Å... with a minicomputer technique. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1977, 33, 1824-1837.	0.4	72
93	Unraveling the interface of signal recognition particle and its receptor by using chemical cross-linking and tandem mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16454-16459.	7.1	72
94	Approaches to solving the rigid receptor problem by identifying a minimal set of flexible residues during ligand docking 11 PDB coordinates have been deposited with the RSCB with accession ID: 1F28.. <i>Chemistry and Biology</i> , 2001, 8, 445-457.	6.0	71
95	Spectroscopic and microscopic characterizations of color lamellae in natural pink diamonds. <i>Diamond and Related Materials</i> , 2010, 19, 1207-1220.	3.9	71
96	Structural and Functional Conservation Between Yeast and Human 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductases, the Rate-Limiting Enzyme of Sterol Biosynthesis. <i>Molecular and Cellular Biology</i> , 1988, 8, 3797-3808.	2.3	71
97	Design of Pore and Matter Architectures in Manganese Oxide Charge-Storage Materials. <i>Electrochemical and Solid-State Letters</i> , 1999, 3, 453.	2.2	70
98	Ion-channel-forming colicins. <i>Current Opinion in Structural Biology</i> , 1998, 8, 525-533.	5.7	69
99	Ionic Nanowires at 600°C: Using Nanoarchitecture to Optimize Electrical Transport in Nanocrystalline Gadolinium-Doped Ceria. <i>Advanced Materials</i> , 2007, 19, 1734-1739.	21.0	68
100	REGULATION OF ISOCITRATE DEHYDROGENASE BY PHOSPHORYLATION INVOLVES NO LONG-RANGE CONFORMATIONAL CHANGE IN THE FREE ENZYME. , 1990, 265, 3599-602.		68
101	Electrical spin pumping of quantum dots at room temperature. <i>Applied Physics Letters</i> , 2005, 86, 132503.	3.3	65
102	Spectroelectrochemical Investigations of Cation-Insertion Reactions at Sol-Gel-Derived Nanostructured, Mesoporous Thin Films of Manganese Oxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8712-8717.	2.6	64
103	Synthesis and Characterization of Nanocrystalline Bismuth Telluride. <i>Nano Letters</i> , 2001, 1, 693-695.	9.1	63
104	Hydrogen absorption and storage in quasicrystalline and related Ti-Zr-Ni alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 78, 131-142.	0.6	62
105	Epitaxial bulk acoustic wave resonators as highly coherent multi-phonon sources for quantum acoustodynamics. <i>Nature Communications</i> , 2020, 11, 2314.	12.8	62
106	Binding of the anticancer drug ZD1694 to E. coli thymidylate synthase: assessing specificity and affinity. <i>Structure</i> , 1996, 4, 1317-1324.	3.3	59
107	Structural basis for recognition of polyglutamyl folates by thymidylate synthase. <i>Biochemistry</i> , 1992, 31, 9883-9890.	2.5	58
108	Multi-targeted antifolates aimed at avoiding drug resistance form covalent closed inhibitory complexes with human and Escherichia coli thymidylate synthases. <i>Journal of Molecular Biology</i> , 2001, 313, 813-829.	4.2	57

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109	Sulfur-functionalized carbon aerogels: a new approach for loading high-surface-area electrode nanoarchitectures with precious metal catalysts. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 80-87.	3.1	56
110	Structures of thymidylate synthase with a C-terminal deletion: Role of the C-terminus in alignment of 2'-deoxyuridine 5'-monophosphate and 5,10-methylenetetrahydrofolate. <i>Biochemistry</i> , 1993, 32, 7116-7125.	2.5	55
111	Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5862-5883.	3.9	55
112	Cofactor triggers the conformational change in thymidylate synthase: implications for an ordered binding mechanism. <i>Biochemistry</i> , 1992, 31, 12876-12884.	2.5	53
113	Laser-based processing of polymer nanocomposites for chemical sensing applications. <i>Journal of Applied Physics</i> , 2001, 89, 5739-5746.	2.5	53
114	Oxygen Reduction Reaction on Platinum/Tantalum Oxide Electrocatalysts for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1314.	2.9	53
115	DIRECT LABORATORY ANALYSIS OF SILICATE STARDUST FROM RED GIANT STARS. <i>Astrophysical Journal</i> , 2009, 700, 774-782.	4.5	53
116	Correlated microanalysis of cometary organic grains returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1376-1396.	1.6	53
117	Triarylphosphine-Stabilized Platinum Nanoparticles in Three-Dimensional Nanostructured Films as Active Electrocatalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21487-21496.	2.6	52
118	Synthesis of La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> Pore-Solid Nanoarchitectures via Epoxide-Driven Sol-Gel Chemistry. <i>Advanced Materials</i> , 2006, 18, 615-618.	21.0	52
119	Three-Dimensional Structures of HIV-1 and SIV Protease Product Complexes. <i>Biochemistry</i> , 1996, 35, 12933-12944.	2.5	51
120	Young poorly crystalline graphite in the >3.8-Gyr-old Nuvvuagittuq banded iron formation. <i>Nature Geoscience</i> , 2011, 4, 376-379.	12.9	51
121	Circumstellar and interstellar material in the CO <sub>3</sub> chondrite ALHA77307: An isotopic and elemental investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 93, 77-101.	3.9	50
122	Structure-Based Design of Inhibitors Specific for Bacterial Thymidylate Synthase. <i>Biochemistry</i> , 1999, 38, 1607-1617.	2.5	49
123	Strain Effects in Epitaxial VO <sub>2</sub> Thin Films on Columnar Buffer-Layer TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Virtual Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1577-1584.	8.0	49
124	Structure of an acyl-enzyme intermediate during catalysis: (guanidinobenzoyl)trypsin. <i>Biochemistry</i> , 1990, 29, 8351-8357.	2.5	48
125	Ion channel forming colicins. <i>Current Opinion in Structural Biology</i> , 1995, 5, 514-520.	5.7	47
126	Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland II: Isotopic and chemical compositions and comparison with Paleoproterozoic banded iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5884-5905.	3.9	47



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127	Tailoring Advanced Nanoscale Materials Through Synthesis of Composite Aerogel Architectures. <i>Advanced Engineering Materials</i> , 2000, 2, 481-488.	3.5	46
128	Divalent Anion Salt Effects in Polyelectrolyte Multilayer Depositions. <i>Langmuir</i> , 2012, 28, 15831-15843.	3.5	46
129	The icosahedral and related crystal approximant phases in Ti-Zr-Ni alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 70, 927-950.	0.6	45
130	Testing variations within the Tagish Lake meteorite: Mineralogy and petrology of pristine samples. <i>Meteoritics and Planetary Science</i> , 2014, 49, 473-502.	1.6	45
131	Significance of structural changes in proteins: Expected errors in refined protein structures. <i>Protein Science</i> , 1995, 4, 2392-2404.	7.6	43
132	Graves Nunataks 95209: A snapshot of metal segregation and core formation. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 516-531.	3.9	43
133	Colicin Ia inserts into negatively charged membranes at low pH with a tertiary but little secondary structural change. <i>Biochemistry</i> , 1993, 32, 2082-2089.	2.5	42
134	SUPERNOVA SHOCK-WAVE-INDUCED CO-FORMATION OF GLASSY CARBON AND NANODIAMOND. <i>Astrophysical Journal Letters</i> , 2011, 738, L27.	8.3	42
135	Correlating Changes in Electron Lifetime and Mobility on Photocatalytic Activity at Network-Modified TiO <sub>2</sub> Aerogels. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17529-17538.	3.1	42
136	High abundances of presolar grains and 15N-rich organic matter in CO3.0 chondrite Dominion Range 08006. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 107-131.	3.9	42
137	Mineralogy and petrology of Dominion Range 08006: A very primitive CO3 carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 259-278.	3.9	42
138	Stereochemistry of a multistep/bipartite methyl transfer reaction: thymidylate synthase. <i>FASEB Journal</i> , 1993, 7, 671-677.	0.5	40
139	Controlling the pore-solid architecture of mesoporous, high surface area manganese oxides with the birnessite structure. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 288-294.	3.1	40
140	Crystal Structure of RumA, an Iron-Sulfur Cluster Containing E. coli Ribosomal RNA 5-Methyluridine Methyltransferase. <i>Structure</i> , 2004, 12, 397-407.	3.3	40
141	Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5966-5983.	3.9	40
142	High-pressure, high-temperature molecular doping of nanodiamond. <i>Science Advances</i> , 2019, 5, eaau6073.	10.3	40
143	Structure of the protease from simian immunodeficiency virus: Complex with an irreversible nonpeptide inhibitor. <i>Biochemistry</i> , 1993, 32, 12498-12507.	2.5	39
144	Functional Consequences of the Kaposi's Sarcoma-Associated Herpesvirus Protease Structure: Regulation of Activity and Dimerization by Conserved Structural Elements. <i>Biochemistry</i> , 2000, 39, 12796-12803.	2.5	39

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145	Crystal Structure of Thymidylate Synthase from T4 Phage: Component of a Deoxynucleoside Triphosphate-Synthesizing Complex. <i>Biochemistry</i> , 1994, 33, 15459-15468.	2.5	38
146	An Essential Role for Water in an Enzyme Reaction Mechanism: The Crystal Structure of the Thymidylate Synthase Mutant E58Q. <i>Biochemistry</i> , 1996, 35, 16270-16281.	2.5	38
147	The complex of the anti-cancer therapeutic, BW1843U89, with thymidylate synthase at 2.0 Å resolution: implications for a new mode of inhibition. <i>Structure</i> , 1996, 4, 67-77.	3.3	38
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