

Rhonda M Stroud

List of Publications by Year in descending order

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368
papers

23,640
citations

7069

78
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9311

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.	6.0	938
2	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	6.0	848
3	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	6.0	589
4	Incorporation of Homogeneous, Nanoscale MnO ₂ within Ultraporous Carbon Structures via Self-Limiting Electroless Deposition: Implications for Electrochemical Capacitors. <i>Nano Letters</i> , 2007, 7, 281-286.	4.5	565
5	Efficiency of signalling through cytokine receptors depends critically on receptor orientation. <i>Nature</i> , 1998, 395, 511-516.	13.7	545
6	The Signal Recognition Particle. <i>Annual Review of Biochemistry</i> , 2001, 70, 755-775.	5.0	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.	3.3	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.	3.3	387
9	Silica Sol as a Nanogluue: Flexible Synthesis of Composite Aerogels. <i>Science</i> , 1999, 284, 622-624.	6.0	366
10	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	6.0	343
11	Atomic structure of thymidylate synthase: target for rational drug design. <i>Science</i> , 1987, 235, 448-455.	6.0	340
12	Structure-based discovery of inhibitors of thymidylate synthase. <i>Science</i> , 1993, 259, 1445-1450.	6.0	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.	1.2	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.	3.3	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.	2.0	292
16	Impact Features on Stardust: Implications for Comet 81P/Wild 2 Dust. <i>Science</i> , 2006, 314, 1716-1719.	6.0	286
17	Crystal Structure of the Signal Sequence Binding Subunit of the Signal Recognition Particle. <i>Cell</i> , 1998, 94, 181-191.	13.5	277
18	Substrate twinning activates the signal recognition particle and its receptor. <i>Nature</i> , 2004, 427, 215-221.	13.7	270

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19	Regulation of an enzyme by phosphorylation at the active site. <i>Science</i> , 1990, 249, 1012-1016.	6.0	264
20	Nicotinic acetylcholine receptor and superfamily of ligand-gated ion channels. <i>Biochemistry</i> , 1990, 29, 11009-11023.	1.2	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.	1.2	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.	1.2	262
23	Structure at 2.5 Å of a designed peptide that maintains solubility of membrane proteins. <i>Science</i> , 1993, 262, 734-738.	6.0	262
24	Crystal structure of colicin Ia. <i>Nature</i> , 1997, 385, 461-464.	13.7	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.	3.3	248
26	Structure of the conserved GTPase domain of the signal recognition particle. <i>Nature</i> , 1997, 385, 361-364.	13.7	228
27	Sol-gel-Derived Ceria Nanoarchitectures: Synthesis, Characterization, and Electrical Properties. <i>Chemistry of Materials</i> , 2006, 18, 50-58.	3.2	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.	3.3	215
29	Presence of antisite disorder and its characterization in the predicted half-metal Co ₂ MnSi. <i>Physical Review B</i> , 2002, 66, .	1.1	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.	2.0	207
31	Origin of high transport spin polarization in La _{0.7} Sr _{0.3} MnO ₃ : Direct evidence for minority spin states. <i>Physical Review B</i> , 2001, 63, .	1.1	204
32	Enhancing the Activity of Fuel-cell Reactions by Designing Three-dimensional Nanostructured Architectures: Catalyst-modified Carbon-Silica Composite Aerogels. <i>Nano Letters</i> , 2002, 2, 235-240.	4.5	200
33	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. <i>Science</i> , 2006, 314, 1731-1735.	6.0	200
34	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	6.0	189
35	Ultra-primitive interplanetary dust particles from the comet 26P/Grigg-Skjellerup dust stream collection. <i>Earth and Planetary Science Letters</i> , 2009, 288, 44-57.	1.8	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.	3.3	181

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37	Function of human Rh based on structure of RhCG at 2.1Å. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9638-9643.	3.3	178
38	A stable Ti-based quasicrystal. Applied Physics Letters, 1997, 70, 3230-3232.	1.5	175
39	Design of potent selective zinc-mediated serine protease inhibitors. Nature, 1998, 391, 608-612.	13.7	164
40	Nanocrystalline Iron Oxide Aerogels as Mesoporous Magnetic Architectures. Journal of the American Chemical Society, 2004, 126, 16879-16889.	6.6	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.	0.8	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.	3.3	155
44	Plastic adaptation toward mutations in proteins: Structural comparison of thymidylate synthases. Proteins: Structure, Function and Bioinformatics, 1990, 8, 315-333.	1.5	154
45	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	6.0	152
46	Electronic connection to the interior of a mesoporous insulator with nanowires of crystalline RuO ₂ . Nature, 2000, 406, 169-172.	13.7	150
47	Using Three Dimensions in Catalytic Mesoporous Nanoarchitectures. Nano Letters, 2002, 2, 545-549.	4.5	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.	3.3	146
49	TARP Auxiliary Subunits Switch AMPA Receptor Antagonists into Partial Agonists. Science, 2007, 318, 815-817.	6.0	144
50	Minimizing damage during FIB sample preparation of soft materials. Journal of Microscopy, 2012, 245, 288-301.	0.8	144
51	The Crystal and Molecular Structure of DIP-inhibited Bovine Trypsin at 2.7Å Resolution. Cold Spring Harbor Symposia on Quantitative Biology, 1972, 36, 125-140.	2.0	140
52	Characterization of Presolar Silicate and Oxide Grains in Primitive Carbonaceous Chondrites. Astrophysical Journal, 2007, 656, 1223-1240.	1.6	136
53	Comparing Wild 2 particles to chondrites and IDPs. Meteoritics and Planetary Science, 2008, 43, 261-272.	0.7	136
54	Plasmonic enhancement of visible-light water splitting with Au@TiO ₂ composite aerogels. Nanoscale, 2013, 5, 8073.	2.8	130

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55	Passivated Iron as Core-Shell Nanoparticles. <i>Chemistry of Materials</i> , 2003, 15, 3245-3246.	3.2	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.	1.6	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.	1.2	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.	1.6	113
61	Domain Flexibility in Retroviral Proteases: Structural Implications for Drug Resistant Mutations. <i>Biochemistry</i> , 1998, 37, 2607-2621.	1.2	112
62	Hydrogenation of titanium-based quasicrystals. <i>Physical Review B</i> , 1995, 51, 12026-12029.	1.1	110
63	Magnetic, structural, and transport properties of thin film and single crystal Co ₂ MnSi. <i>Applied Physics Letters</i> , 2001, 79, 4396-4398.	1.5	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 ₂ . <i>Scientific Reports</i> , 2016, 6, 35154.	1.6	107
66	Stable Ti-based quasicrystal offers prospect for improved hydrogen storage. <i>Applied Physics Letters</i> , 1996, 69, 2998-3000.	1.5	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.	1.5	102
68	Pairwise specificity and sequential binding in enzyme catalysis: thymidylate synthase. <i>Biochemistry</i> , 1990, 29, 6977-6986.	1.2	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.	1.2	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.	1.6	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.	1.2	99
72	Polymorphism in Presolar Al ₂ O ₃ Grains from Asymptotic Giant Branch Stars. <i>Science</i> , 2004, 305, 1455-1457.	6.0	90

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73	Signal sequence recognition and protein targeting. <i>Current Opinion in Structural Biology</i> , 1999, 9, 754-759.	2.6	87
74	Reduction of Spin Injection Efficiency by Interface Defect Spin Scattering in ZnMnSe/AlGaAs ⁺ GaAs Spin-Polarized Light-Emitting Diodes. <i>Physical Review Letters</i> , 2002, 89, 166602.	2.9	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.	2.0	85
76	Synthesis of Nanocrystalline Bismuth in Reverse Micelles. <i>Journal of the American Chemical Society</i> , 2000, 122, 7114-7115.	6.6	85
77	Silica Nanoarchitectures Incorporating Self-Organized Protein Superstructures with Gas-Phase Bioactivity. <i>Nano Letters</i> , 2003, 3, 1463-1467.	4.5	84
78	Mechanistic Diversity of Cytokine Receptor Signaling Across Cell Membranes. <i>Science Signaling</i> , 2004, re7-re7.	1.6	84
79	Functional changes in the structure of the SRP GTPase on binding GDP and Mg ²⁺ +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.	2.9	78
81	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 904-928.	0.7	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.	1.2	77
83	Comet 81P/Wild 2: The size distribution of finer (sub- $10\ \mu\text{m}$) dust collected by the Stardust spacecraft. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1409-1428.	0.7	76
84	Oxidation-stable plasmonic copper nanoparticles in photocatalytic TiO ₂ nanoarchitectures. <i>Nanoscale</i> , 2017, 9, 11720-11729.	2.8	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.	3.2	75
86	Water-mediated substrate/product discrimination: The product complex of thymidylate synthase at 1.83 Å. <i>Biochemistry</i> , 1994, 33, 1502-1511.	1.2	74
87	The additivity of substrate fragments in enzyme-ligand binding. <i>Structure</i> , 1998, 6, 839-848.	1.6	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.	0.7	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.	3.3	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.	0.7	73

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91	A cometary building block in a primitive asteroidal meteorite. <i>Nature Astronomy</i> , 2019, 3, 659-666.	4.2	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.	3.3	72
94	Approaches to solving the rigid receptor problem by identifying a minimal set of flexible residues during ligand docking 11PDB coordinates have been deposited with the RSCB with accession ID: 1F28.. <i>Chemistry and Biology</i> , 2001, 8, 445-457.	6.2	71
95	Spectroscopic and microscopic characterizations of color lamellae in natural pink diamonds. <i>Diamond and Related Materials</i> , 2010, 19, 1207-1220.	1.8	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.	1.1	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.	2.6	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.	11.1	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.	1.5	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.	1.2	64
103	Synthesis and Characterization of Nanocrystalline Bismuth Telluride. <i>Nano Letters</i> , 2001, 1, 693-695.	4.5	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.	0.8	62
105	Epitaxial bulk acoustic wave resonators as highly coherent multi-phonon sources for quantum acoustodynamics. <i>Nature Communications</i> , 2020, 11, 2314.	5.8	62
106	Binding of the anticancer drug ZD1694 to E. coli thymidylate synthase: assessing specificity and affinity. <i>Structure</i> , 1996, 4, 1317-1324.	1.6	59
107	Structural basis for recognition of polyglutamyl folates by thymidylate synthase. <i>Biochemistry</i> , 1992, 31, 9883-9890.	1.2	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.	2.0	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.	1.5	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.	1.2	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.	1.6	55
112	Cofactor triggers the conformational change in thymidylate synthase: implications for an ordered binding mechanism. <i>Biochemistry</i> , 1992, 31, 12876-12884.	1.2	53
113	Laser-based processing of polymer nanocomposites for chemical sensing applications. <i>Journal of Applied Physics</i> , 2001, 89, 5739-5746.	1.1	53
114	Oxygen Reduction Reaction on Platinum/Tantalum Oxide Electrocatalysts for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1314.	1.3	53
115	DIRECT LABORATORY ANALYSIS OF SILICATE STARDUST FROM RED GIANT STARS. <i>Astrophysical Journal</i> , 2009, 700, 774-782.	1.6	53
116	Correlated microanalysis of cometary organic grains returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1376-1396.	0.7	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.	1.2	52
118	Synthesis of La _{9.33} Si ₆ O ₂₆ Pore-Solid Nanoarchitectures via Epoxide-Driven Sol-Gel Chemistry. <i>Advanced Materials</i> , 2006, 18, 615-618.	11.1	52
119	Three-Dimensional Structures of HIV-1 and SIV Protease Product Complexes. <i>Biochemistry</i> , 1996, 35, 12933-12944.	1.2	51
120	Young poorly crystalline graphite in the >3.8-Gyr-old Nuvvuagittuq banded iron formation. <i>Nature Geoscience</i> , 2011, 4, 376-379.	5.4	51
121	Circumstellar and interstellar material in the CO ₃ chondrite ALHA77307: An isotopic and elemental investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 93, 77-101.	1.6	50
122	Structure-Based Design of Inhibitors Specific for Bacterial Thymidylate Synthase. <i>Biochemistry</i> , 1999, 38, 1607-1617.	1.2	49
123	Strain Effects in Epitaxial VO ₂ Thin Films on Columnar Buffer-Layer TiO ₂ /Al ₂ O ₃ Virtual Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1577-1584.	4.0	49
124	Structure of an acyl-enzyme intermediate during catalysis: (guanidinobenzoyl)trypsin. <i>Biochemistry</i> , 1990, 29, 8351-8357.	1.2	48
125	Ion channel forming colicins. <i>Current Opinion in Structural Biology</i> , 1995, 5, 514-520.	2.6	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.	1.6	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.	1.6	46
128	Divalent Anion Salt Effects in Polyelectrolyte Multilayer Depositions. <i>Langmuir</i> , 2012, 28, 15831-15843.	1.6	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.	0.7	45
131	Significance of structural changes in proteins: Expected errors in refined protein structures. <i>Protein Science</i> , 1995, 4, 2392-2404.	3.1	43
132	Graves Nunataks 95209: A snapshot of metal segregation and core formation. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 516-531.	1.6	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.	1.2	42
134	SUPERNOVA SHOCK-WAVE-INDUCED CO-FORMATION OF GLASSY CARBON AND NANODIAMOND. <i>Astrophysical Journal Letters</i> , 2011, 738, L27.	3.0	42
135	Correlating Changes in Electron Lifetime and Mobility on Photocatalytic Activity at Network-Modified TiO ₂ Aerogels. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17529-17538.	1.5	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.	1.6	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.	1.6	42
138	Stereochemistry of a multistep/bipartite methyl transfer reaction: thymidylate synthase. <i>FASEB Journal</i> , 1993, 7, 671-677.	0.2	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.	1.5	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.	1.6	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.	1.6	40
142	High-pressure, high-temperature molecular doping of nanodiamond. <i>Science Advances</i> , 2019, 5, eaau6073.	4.7	40
143	Structure of the protease from simian immunodeficiency virus: Complex with an irreversible nonpeptide inhibitor. <i>Biochemistry</i> , 1993, 32, 12498-12507.	1.2	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.	1.2	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.	1.2	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.	1.2	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.	1.6	38
148	D221 in Thymidylate Synthase Controls Conformation Change, and Thereby Opening of the Imidazolidine. <i>Biochemistry</i> , 1998, 37, 13893-13901.	1.2	38
149	Architectural integration of the components necessary for electrical energy storage on the nanoscale and in 3D. <i>Nanoscale</i> , 2011, 3, 1731.	2.8	38
150	Atomic structure of a glycerol channel and implications for substrate permeation in aqua(glycero)porins. <i>FEBS Letters</i> , 2001, 504, 112-117.	1.3	37
151	An electrostatic highway. <i>Nature Structural Biology</i> , 1994, 1, 131-134.	9.7	36
152	Suppression of superconductivity by injection of spin-polarized current. <i>Journal of Applied Physics</i> , 1998, 83, 6774-6776.	1.1	36
153	Fabrication of YBa ₂ Cu ₃ O _{7-x} /SrTiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ junctions for the control of supercurrent by spin-polarized quasiparticle current injection. <i>Journal of Applied Physics</i> , 1998, 83, 7189-7191.	1.1	36
154	Enzyme-catalyzed therapeutic agent (ECTA) design: activation of the antitumor ECTA compound NB1011 by thymidylate synthase. Abbreviations: BVdU, (E)-5-(2-bromovinyl)-2-deoxyuridine; BVdUMP, (E)-5-(2-bromovinyl)-2-deoxyuridine 5-monophosphate; NB1011, (E)-5-(2-bromovinyl)-2-deoxy-5-uridylyl phenyl l-methoxyalaninylphosphoramidate; COSY, correlated spectroscopy; DCI, direct current ionization; DMF, N,N-dimethylformamide; dUMP, 2-deoxyuridine 5-monophosphate; ECTA, enzyme-catalyzed therapeutic agent; 5-FU. <i>Biochemical Pharmacology</i> , 2001, 61, 179-189.	2.0	36
155	Polyhedral serpentine grains in CM chondrites. <i>Meteoritics and Planetary Science</i> , 2006, 41, 681-688.	0.7	36
156	High temperature x-ray and calorimetric studies of phase transformations in quasicrystalline Ti-Zr-Ni alloys. <i>Journal of Materials Research</i> , 1997, 12, 434-438.	1.2	34
157	Access to Phosphorylation in Isocitrate Dehydrogenase May Occur by Domain Shifting. <i>Biochemistry</i> , 1997, 36, 13890-13896.	1.2	34
158	Transmission electron microscopy of cometary residues from micron-sized craters in the Stardust Al foils. <i>Meteoritics and Planetary Science</i> , 2008, 43, 143-160.	0.7	34
159	Bonanza: An extremely large dust grain from a supernova. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 60-86.	1.6	34
160	Catalytically-active complex of HIV-1 integrase with a viral DNA substrate binds anti-integrase drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8192-8197.	3.3	33
161	Plasmonic Aerogels as a Three-Dimensional Nanoscale Platform for Solar Fuel Photocatalysis. <i>Langmuir</i> , 2017, 33, 9444-9454.	1.6	33
162	Phase-dependent space weathering effects and spectroscopic identification of retained helium in a lunar soil grain. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 64-79.	1.6	33

#	ARTICLE	IF	CITATIONS
163	Controlling the Infrared Dielectric Function through Atomic-Scale Heterostructures. ACS Nano, 2019, 13, 6730-6741.	7.3	33
164	The domain structure of the ion channel-forming protein colicin Ia. Nature Structural and Molecular Biology, 1994, 1, 597-604.	3.6	32
165	Nickel Ferrite Aerogels with Monodisperse Nanoscale Building Blocks—The Importance of Processing Temperature and Atmosphere. ACS Nano, 2008, 2, 784-790.	7.3	32
166	Band-edge excitons in PbSe nanocrystals and nanorods. Physical Review B, 2010, 82, .	1.1	32
167	Active site water molecules revealed in the 2.1 Å... resolution structure of a site-directed mutant of isocitrate dehydrogenase 1 Edited by I. A. Wilson. Journal of Molecular Biology, 2000, 295, 377-385.	2.0	30
168	Estimating Crystallite Size in Polydispersed Samples using EXAFS. Physica Scripta, 2005, , 744.	1.2	30
169	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	0.7	29
170	A transmission electron microscopy study of presolar spinel. Geochimica Et Cosmochimica Acta, 2014, 124, 152-169.	1.6	29
171	A new class of HIV-1 protease inhibitor: The crystallographic structure, inhibition and chemical synthesis of an aminimide peptide isostere. Bioorganic and Medicinal Chemistry, 1996, 4, 1545-1558.	1.4	28
172	Predicting and harnessing protein flexibility in the design of species-specific inhibitors of thymidylate synthase ^{1,2} Escherichia coli thymidylate synthase numbering is used unless otherwise noted. ² PDB coordinates have been deposited with the RCSB with accession ID: 1JG0.. Chemistry and Biology, 2001, 8, 981-995.	6.2	28
173	Magnetic and Mössbauer spectroscopy studies of nanocrystalline iron oxide aerogels. Journal of Applied Physics, 2006, 99, 08N711.	1.1	28
174	Silver-Colloid-Nucleated Cytochrome c Superstructures Encapsulated in Silica Nanoarchitectures. Langmuir, 2004, 20, 9276-9281.	1.6	27
175	Mapping a membrane-associated conformation of colicin Ia. Biochemistry, 1993, 32, 9473-9479.	1.2	25
176	Entropy in Bi-substrate Enzymes: Proposed Role of an Alternate Site in Chaperoning Substrate into, and Products out of, Thymidylate Synthase. Journal of Molecular Biology, 1996, 255, 522-535.	2.0	25
177	Transmission Electron Microscopy Studies of the Nanoscale Structure and Chemistry of Pt ₅₀ Ru ₅₀ Electrocatalysts. Microscopy and Microanalysis, 2002, 8, 50-57.	0.2	25
178	De novo design of an IL-4 antagonist and its structure at 1.9 Å. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1889-1894.	3.3	25
179	Diameter control of gallium nitride nanowires. Journal of Applied Physics, 2007, 101, 094305.	1.1	25
180	Thermal conductivity of amorphous and nanocrystalline silicon films prepared by hot-wire chemical-vapor deposition. Physical Review B, 2017, 96, .	1.1	25

#	ARTICLE	IF	CITATIONS
181	Coordinated Nanoscale Compositional and Oxidation State Measurements of Lunar Spaceâ€Weathered Material. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2022-2037.	1.5	25
182	Photocatalytic CO Oxidation over Nanoparticulate Au-Modified TiO ₂ Aerogels: The Importance of Size and Intimacy. <i>ACS Catalysis</i> , 2020, 10, 14834-14846.	5.5	25
183	Partitioning Roles of Side Chains in Affinity, Orientation, and Catalysis with Structures for Mutant Complexes:â€Asparagine-229 in Thymidylate Synthase. <i>Biochemistry</i> , 1996, 35, 5125-5136.	1.2	24
184	Balancing ATP in the cell. <i>Nature Structural Biology</i> , 1996, 3, 567-569.	9.7	24
185	Magnetic and transport properties of radiation damaged La _{0.7} Ca _{0.3} MnO _{3.0} thin films. <i>Journal of Applied Physics</i> , 1998, 83, 7070-7072.	1.1	24
186	The effect of particle size and protein content on nanoparticle-gold-nucleated cytochrome c superstructures encapsulated in silica nanoarchitectures. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 31-38.	1.5	24
187	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1680-1697.	0.7	24
188	Phthalein Derivatives as a New Tool for Selectivity in Thymidylate Synthase Inhibition. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 2112-2124.	2.9	23
189	The crystal structure of thymidylate synthase from <i>Pneumocystis carinii</i> reveals a fungal insert important for drug design. <i>Journal of Molecular Biology</i> , 2000, 297, 645-657.	2.0	23
190	(Ni,Fe,Co)-based nanocrystalline soft magnets with near-zero magnetostriction. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 3045-3050.	1.2	23
191	The importance of combining disorder with order for Li-ion insertion into cryogenically prepared nanoscopic ruthenia. <i>Journal of Materials Chemistry</i> , 2007, 17, 1292.	6.7	23
192	A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRESOLAR HIBONITE. <i>Astrophysical Journal</i> , 2011, 730, 83.	1.6	23
193	A practical guide to transmission electron microscopy of aerogels. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 277-284.	1.5	22
194	Gallium-based catalysts for growth of GaN nanowires. <i>Journal of Crystal Growth</i> , 2006, 290, 115-120.	0.7	22
195	Applied focused ion beam techniques for sample preparation of astromaterials for integrated nanoanalysis. <i>Meteoritics and Planetary Science</i> , 2008, 43, 561-569.	0.7	22
196	Layer-by-Layer Assembly of Heterogeneous Modular Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1694-1701.	1.5	22
197	Concerns of Organic Contamination for Sample Return Space Missions. <i>Space Science Reviews</i> , 2020, 216, 56.	3.7	22
198	Structure and magnetic properties of (Co,Fe)-based nanocrystalline soft magnetic materials. <i>Journal of Applied Physics</i> , 2002, 91, 8420.	1.1	21

#	ARTICLE	IF	CITATIONS
199	Laboratory technology and cosmochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19135-19141.	3.3	21
200	Structural Impact on Dielectric Properties of Zirconia. Journal of Physical Chemistry C, 2016, 120, 26834-26840.	1.5	21
201	Contributions of orientation and hydrogen bonding to catalysis in Asn229 mutants of thymidylate synthase. Journal of Molecular Biology, 1998, 276, 113-129.	2.0	20
202	Engineering a soluble extracellular erythropoietin receptor (EPObp) in Pichia pastoris to eliminate microheterogeneity, and its complex with erythropoietin. Protein Engineering, Design and Selection, 1999, 12, 505-513.	1.0	20
203	Size and Temperature Dependence of Band-Edge Excitons in PbSe Nanowires. Journal of Physical Chemistry Letters, 2011, 2, 527-531.	2.1	20
204	Synthesis and Characterization of PbS/ZnS Core/Shell Nanocrystals. Chemistry of Materials, 2018, 30, 4112-4123.	3.2	20
205	Enabling remote quantum emission in 2D semiconductors via porous metallic networks. Nature Communications, 2020, 11, 5.	5.8	20
206	A carboxy-terminal fragment of colicin Ia forms ion channels. Journal of Membrane Biology, 1993, 134, 85-92.	1.0	19
207	Pulsed laser deposition as a materials research tool. Applied Surface Science, 1998, 127-129, 507-513.	3.1	19
208	Exchange bias in a single phase ferrimagnet. Journal of Applied Physics, 2010, 107, .	1.1	19
209	Stardust Interstellar Preliminary Examination <scp>IX</scp>: High-speed interstellar dust analog capture in Stardust flight spare aerogel. Meteoritics and Planetary Science, 2014, 49, 1666-1679.	0.7	19
210	Transfer of Chemically Modified Graphene with Retention of Functionality for Surface Engineering. Nano Letters, 2016, 16, 1455-1461.	4.5	19
211	Electrochemical Observation of Ligand Effects on Oxygen Reduction at Ligand-Stabilized Pt Nanoparticle Electrocatalysts. Electrochemical and Solid-State Letters, 2008, 11, B161.	2.2	18
212	Sonochemical Synthesis of Air-Insensitive Carbide-Stabilized Hafnium Subhydride Nanopowder. Chemistry of Materials, 2009, 21, 3469-3472.	3.2	18
213	Stardust Interstellar Preliminary Examination <scp>II</scp>: Curating the interstellar dust collector, picrokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	0.7	18
214	Stardust Interstellar Preliminary Examination <scp>IV</scp>: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1562-1593.	0.7	18
215	Replacement set mutagenesis of the four phosphate-binding arginine residues of thymidylate synthase. Protein Engineering, Design and Selection, 2000, 13, 557-563.	1.0	17
216	CIRCUMSTELLAR MAGNETITE FROM THE LAP 031117 CO3.0 CHONDRITE. Astrophysical Journal, 2015, 808, 55.	1.6	17

#	ARTICLE	IF	CITATIONS
217	High-temperature Dust Condensation around an AGB Star: Evidence from a Highly Pristine Presolar Corundum. <i>Astrophysical Journal Letters</i> , 2018, 862, L13.	3.0	17
218	Helical protein design. <i>Current Opinion in Biotechnology</i> , 1998, 9, 350-353.	3.3	16
219	Stardust Interstellar Preliminary Examination <sc>XI</sc>: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1698-1719.	0.7	16
220	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1509-1521.	0.7	16
221	Coordinated <sc>EDX</sc> and micro-Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2550-2569.	0.7	16
222	The effect of ultrasmall grain sizes on the thermal conductivity of nanocrystalline silicon thin films. <i>Communications Physics</i> , 2021, 4, .	2.0	15
223	Crystal Structures of a Unique Thermal-Stable Thymidylate Synthase from <i>Bacillus subtilis</i> . <i>Biochemistry</i> , 1998, 37, 14736-14747.	1.2	14
224	Triple F“a comet nucleus sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 809-847.	1.6	14
225	Individual heteroatom identification with X-ray spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	14
226	Submicrometer-scale spatial heterogeneity in silicate glasses using aberration-corrected scanning transmission electron microscopy. <i>American Mineralogist</i> , 2016, 101, 2677-2688.	0.9	14
227	Effects of a Lead Chloride Shell on Lead Sulfide Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1914-1918.	2.1	14
228	An Elastomeric Poly(Thiophene–EDOT) Composite with a Dynamically Variable Permeability Towards Organic and Water Vapors. <i>Advanced Functional Materials</i> , 2012, 22, 3116-3127.	7.8	13
229	HIGHLY CONCENTRATED NEBULAR NOBLE GASES IN POROUS NANOCARBON SEPARATES FROM THE SARATOV (L4) METEORITE. <i>Astrophysical Journal</i> , 2013, 778, 37.	1.6	13
230	Stardust Interstellar Preliminary Examination <sc>VII</sc>: Synchrotron X-ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2–ID microprobe. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1626-1644.	0.7	13
231	Presolar grains in primitive ungrouped carbonaceous chondrite Northwest Africa 5958. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1160-1175.	0.7	13
232	Power of Aerogel Platforms to Explore Mesoscale Transport in Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41277-41287.	4.0	13
233	Capacity and phase stability of metal-substituted $\text{Ni}(\text{OH})_2$ nanosheets in aqueous Ni-Zn batteries. <i>Materials Advances</i> , 2021, 2, 3060-3074.	2.6	13
234	Crystallization of human thymidylate synthase. <i>Journal of Molecular Biology</i> , 1991, 219, 161-163.	2.0	12

#	ARTICLE	IF	CITATIONS
235	A Novel dCMP Methylase by Engineering Thymidylate Synthase. <i>Biochemistry</i> , 1997, 36, 15909-15917.	1.2	12
236	Energetic Contributions of Four Arginines to Phosphate-Binding in Thymidylate Synthase Are More than Additive and Depend on Optimization of Effective Charge Balance. <i>Biochemistry</i> , 2000, 39, 1011-1020.	1.2	12
237	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1645-1665.	0.7	12
238	Stardust Interstellar Preliminary Examination VI: Quantitative elemental analysis by synchrotron X-ray fluorescence nanoimaging of eight impact features in aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1612-1625.	0.7	12
239	Stardust Interstellar Preliminary Examination V: XRF analyses of interstellar dust candidates at ESRF ID 13. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1594-1611.	0.7	12
240	Stardust Interstellar Preliminary Examination III: Infrared spectroscopic analysis of interstellar dust candidates. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1548-1561.	0.7	12
241	Photothermal effects during nanodiamond synthesis from a carbon aerogel in a laser-heated diamond anvil cell. <i>Diamond and Related Materials</i> , 2018, 87, 134-142.	1.8	12
242	Stabilization of reduced copper on ceria aerogels for CO oxidation. <i>Nanoscale Advances</i> , 2020, 2, 4547-4556.	2.2	12
243	Effects of Subunit Occupancy on Partitioning of an Intermediate in Thymidylate Synthase Mutants. <i>Biochemistry</i> , 2000, 39, 2429-2435.	1.2	11
244	Chemically exfoliating large sheets of phosphorene via choline chloride urea viscosity-tuning. <i>Nanotechnology</i> , 2017, 28, 155601.	1.3	11
245	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, 131-141.	0.8	11
246	Optical Dark-Field and Electron Energy Loss Imaging and Spectroscopy of Symmetry-Forbidden Modes in Loaded Nanogap Antennas. <i>ACS Nano</i> , 2015, 9, 6222-6232.	7.3	10
247	Shell Structure and Growth in the Base Plate of the Barnacle <i>Amphibalanus amphitrite</i> . <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1085-1095.	2.6	10
248	From amorphous to nanocrystalline: the effect of nanograins in an amorphous matrix on the thermal conductivity of hot-wire chemical-vapor deposited silicon films. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 085301.	0.7	10
249	Spatially Resolved Chemical Analysis of <i>Geobacter sulfurreducens</i> Cell Surface. <i>ACS Nano</i> , 2019, 13, 4834-4842.	7.3	10
250	Topochemistry for preparing ligands that dimerize receptors. <i>Chemistry and Biology</i> , 1995, 2, 591-600.	6.2	9
251	The discovery, characterization and crystallographically determined binding mode of an FMOG-containing inhibitor of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry</i> , 1997, 5, 1311-1320.	1.4	9
252	Inactivity of N229A thymidylate synthase due to water-mediated effects: isolating a late stage in methyl transfer. <i>Journal of Molecular Biology</i> , 1998, 284, 699-712.	2.0	9

#	ARTICLE	IF	CITATIONS
253	Ion beam effects on the formation of Ge and Si nanoclusters in silica thin films. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 975-979.	0.6	9
254	Magnetism, structure and the effects of thermal aging on (Fe/sub 1-x/Mn/sub x)/sub 73.5/Si/sub 13.5/B/sub 9/Nb/sub 3/Cu/sub 1/ alloys. IEEE Transactions on Magnetics, 2001, 37, 2264-2267.	1.2	9
255	Neutron irradiation of sapphire for compressive strengthening.. Journal of Nuclear Materials, 2002, 300, 39-46.	1.3	9
256	Coordinated Microanalyses of Seven Particles of Probable Interstellar Origin from the Stardust Mission.. Microscopy and Microanalysis, 2014, 20, 1692-1693.	0.2	9
257	The MAGIC meteoric smoke particle sampler. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 127-144.	0.6	9
258	Soft Magnetic Nanocrystalline Alloys for High Temperature Applications. Materials Transactions, 2002, 43, 2000-2005.	0.4	8
259	Non-destructive search for interstellar dust using synchrotron microprobes. , 2010, , .		8
260	Synthesis of PbSe nanowires: the impact of alkylphosphonic acid addition. Journal of Materials Chemistry, 2011, 21, 2616.	6.7	8
261	Comparison of space weathering features in three particles from Itokawa. Meteoritics and Planetary Science, 2021, 56, 1109-1124.	0.7	8
262	Synthesis and characterization of a nanophase zirconium powder. Journal of Materials Chemistry, 2003, 13, 2388.	6.7	7
263	Automated searching of Stardust interstellar foils. Meteoritics and Planetary Science, 2012, 47, 729-736.	0.7	7
264	Evidence for Reduced, Carbon-rich Regions in the Solar Nebula from an Unusual Cometary Dust Particle. Astrophysical Journal, 2017, 848, 113.	1.6	7
265	TEM Analyses of Unusual Presolar Silicon Carbide: Insights into the Range of Circumstellar Dust Condensation Conditions. Astrophysical Journal, 2021, 913, 90.	1.6	7
266	Chemical Mapping of Unstained DNA Origami Using STEM/EDS and Graphene Supports. ACS Applied Nano Materials, 2020, 3, 1123-1130.	2.4	7
267	Contribution of a salt bridge to binding affinity and dUMP orientation to catalytic rate: mutation of a substrate-binding arginine in thymidylate synthase. Protein Engineering, Design and Selection, 1996, 9, 69-75.	1.0	6
268	Exogenous copper sulfide in returned asteroid Itokawa regolith grains are likely relicts of prior impacting body. Communications Earth & Environment, 2021, 2, .	2.6	6
269	Ti-Zr-Ni Quasicrystals: Structure and Hydrogen Storage. Materials Research Society Symposia Proceedings, 1995, 400, 255.	0.1	5
270	Wave-front sensing by pseudo-phase-conjugate interferometry. Applied Optics, 1995, 34, 108.	2.1	5

#	ARTICLE	IF	CITATIONS
271	The structural roles of conserved Pro196, Pro197 and His199 in the mechanism of thymidylate synthase. <i>Protein Engineering, Design and Selection</i> , 2003, 16, 607-614.	1.0	5
272	Surface Passivated Air and Moisture Stable Mixed Zirconium Aluminum Metal-Hydride Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	5
273	Controlling the Crystallinity of Electrochemically Deposited CdS Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11843-11849.	1.5	5
274	Sampling interplanetary dust from Antarctic air. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1128-1145.	0.7	4
275	Phase Identification and Ordered Vacancy Imaging in Epitaxial Metallic Ta ₂ N Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12575-12580.	4.0	4
276	Asparagine 229 Mutants of Thymidylate Synthase Catalyze the Methylation of 3-Methyl-2'-deoxyuridine 5'-Monophosphate. <i>Biochemistry</i> , 1996, 35, 3944-3949.	1.2	3
277	The separate effects of E60Q in <i>Lactobacillus casei</i> thymidylate synthase delineate between mechanisms for formation of intermediates in catalysis. <i>Protein Engineering, Design and Selection</i> , 1998, 11, 171-183.	1.0	3
278	Electron Microscopy of In Situ Presolar Silicon Carbide. <i>Microscopy and Microanalysis</i> , 2002, 8, 1550-1551.	0.2	3
279	Aluminum Nanoparticle Synthesis by Reduction of Halides with Na/K. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	3
280	Oxygen Reduction Reaction on Platinum/Tantalum Oxide Electrocatalysts for PEM Fuel Cells. <i>ECS Transactions</i> , 2007, 11, 197-204.	0.3	3
281	Study of FIB Damage in Carbonaceous Materials using XANES. <i>Microscopy and Microanalysis</i> , 2008, 14, 1008-1009.	0.2	3
282	Characterizing Multi-layer Pristine Graphene, Its Contaminants, and Their Origin Using Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1740-1741.	0.2	3
283	Thermoelectric Properties of Nanocrystalline Silicon Films Prepared by Hot-Wire and Plasma-Enhanced Chemical-Vapor Depositions. <i>Journal of Electronic Materials</i> , 2019, 48, 5218-5225.	1.0	3
284	<sc>FIB</sc> TEM analysis of cometary material in 10 Stardust foil craters. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1349-1370.	0.7	3
285	STEM-EELS-EDS Analysis of Space Weathering Features of ANGSA Lunar Soil Samples. <i>Microscopy and Microanalysis</i> , 2021, 27, 2044-2046.	0.2	3
286	Structure-Based Drug Design. , 1998, , .		3
287	CeO ₂ Aerogel-Induced Resilience of Catalytic Ni(OH) ₂ under Oxidizing Conditions. <i>Chemistry of Materials</i> , 0, , .	3.2	3
288	Classification of metal transfer mode using neural networks. , 0, , .		2

#	ARTICLE	IF	CITATIONS
289	Measurement of the Thermoelectric Properties of Quasicrystalline AlPdRe and AlCuFe Alloys.. Materials Research Society Symposia Proceedings, 1997, 478, 321.	0.1	2
290	Studies of anisotropic thermoelectricity in layered oxide materials and time-resolved phonon kinetics. Physica B: Condensed Matter, 1999, 263-264, 617-620.	1.3	2
291	Surface Elevation and Strain in Ion Implanted GaN. Materials Research Society Symposia Proceedings, 2000, 639, 11531.	0.1	2
292	Germanium nanoclusters in silica thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 468-473.	1.7	2
293	X-ray characterization of germanium nanoclusters in silica thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 397-400.	1.7	2
294	<title>Compressive strengthening of sapphire by neutron irradiation</title>., 2001, , .		2
295	Patterning of GaN by ion implantation-dependent etching. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 82, 111-113.	1.7	2
296	Enhancing the Activity of Fuel-cell Reactions by Designing Three-dimensional Nanostructured Architectures:â€‰ Catalyst-modified Carbonâ€™Silica Composite Aerogels. Nano Letters, 2003, 3, 1321-1321.	4.5	2
297	Name that Atom in 60 Seconds or Less: Energy Dispersive X-Ray Spectroscopy of Individual Heteroatoms in Low Dimensional Materials. Microscopy and Microanalysis, 2015, 21, 1427-1428.	0.2	2
298	Determination of the Modal Abundance of Nano-Scale Amorphous Phases Using Selected Area Electron Diffraction Mapping. Microscopy and Microanalysis, 2016, 22, 1786-1787.	0.2	2
299	Aberration-Corrected Scanning Transmission Electron Microscopy and Energy-Dispersive Spectral Maps of DNA Origami Triangles Using Graphene Supports. Microscopy and Microanalysis, 2018, 24, 386-387.	0.2	2
300	Reply to: GEMS and the devil in their details. Nature Astronomy, 2019, 3, 606-606.	4.2	2
301	Analysis of <i>in situ</i> Nanodiamonds in Organic Matter from Primitive Meteorites with Electron Energy-Loss Spectroscopy and Energy Dispersive X-ray Spectroscopy. Microscopy and Microanalysis, 2019, 25, 2456-2457.	0.2	2
302	Temperature Dependence of Impurity Distributions in Nanodiamonds as Revealed by Coordinated UHV-STEM EDX and EELS Analysis. Microscopy and Microanalysis, 2020, 26, 1506-1507.	0.2	2
303	Laser-Patterned Submicrometer Bi₂Se₃â€™WS₂ Pixels with Tunable Circular Polarization at Room Temperature. ACS Applied Materials & Interfaces, 2022, 14, 9504-9514.	4.0	2
304	Potential of quasicrystals and quasicrystal approximants for new and improved thermoelectric materials. , 0, , .		1
305	Structural Inhomogeneities and Resistivity in Radiation Damaged LA2/3(CA,SR)1/3MNO3-Î Pulsed Laser Deposited Thin Films. Materials Research Society Symposia Proceedings, 1997, 474, 185.	0.1	1
306	Imaging detectors based on the response of anisotropic layered materials. IEEE Transactions on Applied Superconductivity, 1999, 9, 3194-3197.	1.1	1

#	ARTICLE	IF	CITATIONS
307	Z-contrast-Microscopy and Density-Functional-Theory Determination of the Atomic Structure of the Fe/AlGaAs Interface and its Impact on Spin Transport. <i>Microscopy and Microanalysis</i> , 2006, 12, 972-973.	0.2	1
308	Correlation between formation of layered nanoparticles in phase separated films and ion beam assisted deposition. <i>Surface and Coatings Technology</i> , 2007, 201, 8448-8451.	2.2	1
309	Enhanced Jahn-Teller response induced by low-dose 10 ¹⁶ MeV I ⁺ irradiation of La _{0.7} Ca _{0.3} MnO ₃ films. <i>Applied Physics Letters</i> , 2014, 104, 212404.	1.5	1
310	Coordinated Electron and X-ray Microscopy of Cometary Organic Matter Collected by the NASA Stardust Mission.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1694-1695.	0.2	1
311	Identification of Rare Polytypes of Presolar SiC with Coordinated TEM, Raman Spectroscopy and NanoSIMS Measurements. <i>Microscopy and Microanalysis</i> , 2017, 23, 2134-2135.	0.2	1
312	Visualizing Iron Oxidation State in a Possible Cometary Clast from Carbonaceous Meteorite LAP 02342. <i>Microscopy and Microanalysis</i> , 2017, 23, 2150-2151.	0.2	1
313	FIB/STEM Investigation of Four Impact Craters from the Stardust Comet Sample Return Mission Foils. <i>Microscopy and Microanalysis</i> , 2017, 23, 2190-2191.	0.2	1
314	Low Energy STEM-EELS Characterization of Primitive Organic Matter and Silicates in the Meteorite LAP 02342. <i>Microscopy and Microanalysis</i> , 2018, 24, 2074-2075.	0.2	1
315	Identifying Spatial Relationships in Metal-nanoparticle/Insulating-aerogel Catalytic Systems with Electron Tomography: Manual Segmentation vs. Machine-learning Classifiers. <i>Microscopy and Microanalysis</i> , 2020, 26, 1852-1853.	0.2	1
316	Coordinated Electron Energy Loss and Energy Dispersive X-ray Spectroscopies of Organic Matter from Asteroids. <i>Microscopy and Microanalysis</i> , 2021, 27, 2546-2547.	0.2	1
317	Evolution of NV centers in nanodiamond using in situ heating with STEM-EELS/EDS. <i>Microscopy and Microanalysis</i> , 2021, 27, 3050-3052.	0.2	1
318	Cu _{2-x} S/PbS Core/Shell Nanocrystals with Improved Chemical Stability. <i>Chemistry of Materials</i> , 2021, 33, 6685-6691.	3.2	1
319	Automatic detection of impact craters on Al foils from the Stardust interstellar dust collector using convolutional neural networks. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1890-1904.	0.7	1
320	DISPERSION OF NANOCCLAY IN 1,4-POLYBUTADIENE. <i>Rubber Chemistry and Technology</i> , 2018, 91, 633-643.	0.6	1
321	An archetypal molecular transducer of the nervous system: the acetylcholine receptor. <i>Research Publications - Association for Research in Nervous and Mental Disease</i> , 1987, 65, 51-63.	0.1	1
322	Ion Beam Effects on the Formation of Semiconductor Nanoclusters. <i>Materials Research Society Symposia Proceedings</i> , 1997, 504, 405.	0.1	0
323	Fabrication of High Temperature Superconductor-Colossal Magnetoresistor Spin Injection Devices. <i>Materials Research Society Symposia Proceedings</i> , 1997, 494, 249.	0.1	0
324	Pulsed Laser Deposition of (Ba,Sr)TiO ₃ Ferroelectric thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1998, 526, 163.	0.1	0

#	ARTICLE	IF	CITATIONS
325	Pulsed-laser deposition of YBa ₂ Cu ₃ O _{7-x} -La _{0.67} Sr _{0.33} MnO ₃ thin film multilayers for spin injection devices. , 1998, 3274, 285.		0
326	<title>Ion beam processing of nanocluster-containing thin films</title>. , 1998, 3413, 56.		0
327	Structure and Magnetism of Nanocrystalline K ⁺ MnO ₂ . Materials Research Society Symposia Proceedings, 1999, 602, 283.	0.1	0
328	The control of gold nanocluster sizes in dielectric thin films via ion beam assisted deposition. Materials Research Society Symposia Proceedings, 2000, 647, 1.	0.1	0
329	Nanoscale Structural and Chemical Segregation in Pt ₅₀ Ru ₅₀ Electrocatalysts. Microscopy and Microanalysis, 2001, 7, 1112-1113.	0.2	0
330	Mesoporous, microporous and nanowired: electron microscopy of aerogel composites. Microscopy and Microanalysis, 2002, 8, 1240-1241.	0.2	0
331	Effects of the Heteroepitaxial Interface on Spin Injection in Fe/AlGaAs. Microscopy and Microanalysis, 2004, 10, 334-335.	0.2	0
332	In Situ Lift-Out for Coordinated Structure-Electron Transport and Structure-Isotope Studies. Microscopy and Microanalysis, 2006, 12, 1266-1267.	0.2	0
333	Lift-out and In-situ STM-TEM Studies of Individual GaN Nanowires. Microscopy and Microanalysis, 2006, 12, 702-703.	0.2	0
334	Using the Focused Ion Beam to Perform Serial Sectioning of Micron-Sized Particles for Coordinated Nanoscale Analysis. Materials Research Society Symposia Proceedings, 2008, 1089, 40501.	0.1	0
335	NanoSIMS and TEM Studies of SiC and Si ₃ N ₄ Supernova Condensates. Microscopy and Microanalysis, 2008, 14, 518-519.	0.2	0
336	Nanobeam Analysis of the Oxidation States of Transition Metals in Primitive Planetary Materials. Microscopy and Microanalysis, 2008, 14, 524-525.	0.2	0
337	Structural, chemical and isotopic examinations of interstellar organic matter extracted from meteorites and interstellar dust particles. Proceedings of the International Astronomical Union, 2008, 4, 333-334.	0.0	0
338	Towards Low-Damage TEM Sample Preparation of Carbonaceous Materials in the Focused Ion Beam. Microscopy and Microanalysis, 2009, 15, 342-343.	0.2	0
339	3D Nanoscale Analysis Using Focused Ion Beam Tomography of Carbonaceous Nanoglobules in Matrix Materials from the Tagish Lake Meteorite. Microscopy and Microanalysis, 2014, 20, 318-319.	0.2	0
340	Morphologies, Isotopes, Crystal Structures, and Microstructures of Presolar Al ₂ O ₃ Grains: a NanoSIMS, EBSD, EDS, CL, and FIB-TEM study. Microscopy and Microanalysis, 2014, 20, 1696-1697.	0.2	0
341	Determination of the Effects of Hydrothermal Alteration on Silicate Stardust with Secondary Ion Mass Spectrometry and Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1698-1699.	0.2	0
342	Towards Automated Segmentation Methods for 3D Tomography Studies of the Morphology of Carbon Nanoglobules in Chondritic Meteorites. Microscopy and Microanalysis, 2015, 21, 2101-2102.	0.2	0

#	ARTICLE	IF	CITATIONS
343	Nanoscale Variation in Carbonaceous Matter from Primitive Meteorites Revealed by Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 2265-2266.	0.2	0
344	Aberration-Corrected STEM-EELS Measurements in Fe-bearing Silicate Glasses. <i>Microscopy and Microanalysis</i> , 2015, 21, 1527-1528.	0.2	0
345	Optical dark field and electron energy loss imaging and spectroscopy of symmetry-forbidden modes in loaded nanogap antennas (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
346	Aberration-corrected Scanning Transmission Electron Microscopy and Spectroscopy of Nonprecious Metal Nanoparticles in Titania Aerogels. <i>Microscopy and Microanalysis</i> , 2016, 22, 324-325.	0.2	0
347	(S)TEM Characterization of Chemically Exfoliated Black Phosphorus. <i>Microscopy and Microanalysis</i> , 2016, 22, 1544-1545.	0.2	0
348	Every Atom has a Story to Tell: Using Single-Atom-Sensitivity Imaging and Spectroscopy to Determine Origins of Cosmic Nanodiamonds. <i>Microscopy and Microanalysis</i> , 2016, 22, 866-867.	0.2	0
349	Nanophase Fe-Oxide, Fe-Sulfide, and Ilmenite in High-Ti Lunar Soil using Aberration-Corrected STEM-EELS and EDS. <i>Microscopy and Microanalysis</i> , 2016, 22, 1798-1799.	0.2	0
350	Alteration of Helium-Filled Bubbles and Space Weathered Material During Heating in the TEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 2140-2141.	0.2	0
351	Study of Helium-Ion-Beam-Generated Defects in a Monolayer WS ₂ Using Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1596-1597.	0.2	0
352	Coordinated Nano-Scale EDS and EELS Measurements of Lunar Space-Weathered Material. <i>Microscopy and Microanalysis</i> , 2018, 24, 716-717.	0.2	0
353	Vibrational Electron Energy Loss Spectroscopy of Astrosilicates. <i>Microscopy and Microanalysis</i> , 2018, 24, 424-425.	0.2	0
354	2018 Nier Prize for Aki Takigawa. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1893-1894.	0.7	0
355	Lattice Registry and Evidence for Surface Reconstructions of Metal Films on Suspended 2D Membranes Following Annealing. <i>Microscopy and Microanalysis</i> , 2019, 25, 1516-1517.	0.2	0
356	Aberration-Corrected STEM Analysis of Impurities in Cosmic Nanodiamonds and Synthetic Analogs. <i>Microscopy and Microanalysis</i> , 2019, 25, 1736-1737.	0.2	0
357	Coordinated EDX and micro-Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	0.7	0
358	Fe-rich Phase Separation in Doped BaTiO ₃ as Revealed by STEM-EDS. <i>Microscopy and Microanalysis</i> , 2020, 26, 1198-1200.	0.2	0
359	TEM Structural and Compositional Studies of Presolar SiC Grains and Their Relation to Raman Spectra. <i>Microscopy and Microanalysis</i> , 2020, 26, 2052-2055.	0.2	0
360	Fast, Computer-Assisted Detection of $\sim 1/4\mu\text{m}$ -Scale Dust Impact Craters on Spacecraft Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 2062-2064.	0.2	0

#	ARTICLE	IF	CITATIONS
361	The Atomic Structure of Epitaxial Metallic Transition Metal Nitride TaNx by STEM-ABF and HAADF. Microscopy and Microanalysis, 2020, 26, 2122-2123.	0.2	0
362	STEM of Three Itokawa Grains: Space Weathering and Presence of Cubanite. Microscopy and Microanalysis, 2020, 26, 2602-2604.	0.2	0
363	Fast, computer-assisted detection of dust and debris impact craters on Stardust interstellar foils. Meteoritics and Planetary Science, 2021, 56, 944.	0.7	0
364	TEM analyses of in situ presolar grains in pristine matrix material of ordinary chondrite Semarkona. Microscopy and Microanalysis, 2021, 27, 2786-2789.	0.2	0
365	Record of Alteration by Heavy Ices in a Cometary Clast in a Primitive Meteorite. Microscopy and Microanalysis, 2021, 27, 2268-2270.	0.2	0
366	Crystalline Phase Control in ScxAlx-1N Grown by Molecular Beam Epitaxy. Microscopy and Microanalysis, 2021, 27, 2880-2881.	0.2	0
367	Sample Preparation and Coordinated Analysis for Characterization of Organic Matter in Return Samples from the Carbonaceous Asteroids Ryugu and Bennu. Microscopy and Microanalysis, 2021, 27, 2884-2885.	0.2	0
368	Progress towards the structure of a membrane pore-forming toxin. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C145-C145.	0.3	0