Jeff Yarger

List of Publications by Year
in descending order

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139 papers	6,279 citations	57631 44 h-index	76769 74 g-index
145 all docs	145 docs citations	145 times ranked	6187 citing authors

#	Article	IF	Citations
1	C36, a new carbon solid. Nature, 1998, 393, 771-774.	13.7	418
2	Uncovering the structureâ€“function relationship in spider silk. Nature Reviews Materials, 2018, 3, .	23.3	219
3	Raman spectroscopy of C-S-H, tobermorite, and jennite. Advanced Cement Based Materials, 1997, 5, 93-99.	0.4	215
4	Vitrification of a monatomic metallic liquid. Nature, 2007, 448, 787-790.	13.7	199
5	Al Coordination Changes in High-Pressure Aluminosilicate Liquids. Science, 1995, 270, 1964-1967.	6.0	189
6	Silicon and Oxygen Self-Diffusivities in Silicate Liquids Measured to 15 Gigapascals and 2800 Kelvin. Science, 1997, 276, 1245-1248.	6.0	183
7	Structural and topological changes in silica glass at pressure. Physical Review B, 2010, 81, .	1.1	160
8	Formation and Structure of a Dense Octahedral Glass. Physical Review Letters, 2004, 93, 115502.	2.9	158
9	Determining Secondary Structure in Spider Dragline Silk by Carbonâ^'Carbon Correlation Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 9871-9877.	6.6	147
10	Non-invasive determination of the complete elastic moduli of spider silks. Nature Materials, 2013, 12, 262-267.	13.3	132
11	Correlation between structure and physical properties of chalcogenide glasses in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>As</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2010, 82, .	1.1	117
12	Structural Comparison of Various Silkworm Silks: An Insight into the Structureâ€“Property Relationship. Biomacromolecules, 2018, 19, 906-917.	2.6	116
13	Intermediate range order in vitreous silica from a partial structure factor analysis. Physical Review B, 2008, 78, .	1.1	114
14	Quantitative Correlation between the Protein Primary Sequences and Secondary Structures in Spider Dragline Silks. Biomacromolecules, 2010, 11, 192-200.	2.6	107
15	WISE NMR Characterization of Nanoscale Heterogeneity and Mobility in SupercontractedNephila clavipesSpider Dragline Silk. Journal of the American Chemical Society, 2004, 126, 5867-5872.	6.6	104
16	X-ray diffraction study of nanocrystalline and amorphous structure within major and minor ampullate dragline spider silks. Soft Matter, 2012, 8, 6713.	1.2	104
17	Brillouin imaging. Applied Physics Letters, 2005, 87, 061903.	1.5	95
18	Solid-state NMR evidence for elastin-like Î²-turn structure in spider dragline silk. Chemical Communications, 2010, 46, 6714.	2.2	95

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19	NMR Characterization of Phosphonic Acid Capped SnO2Nanoparticles. Chemistry of Materials, 2007, 19, 2519-2526.	3.2	92
20	Solid-State NMR Investigation of Major and Minor Ampullate Spider Silk in the Native and Hydrated States. Biomacromolecules, 2008, 9, 651-657.	2.6	92
21	Silk structure studied with nuclear magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 69, 23-68.	3.9	88
22	Abundant ammonia in primitive asteroids and the case for a possible exobiology. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4303-4306.	3.3	85
23	NMR study of InP quantum dots: Surface structure and size effects. Journal of Chemical Physics, 1999, 110, 8861-8864.	1.2	82
24	Intermediate-Range Order in Permanently DensifiedGeO2Glass. Physical Review Letters, 2003, 90, 115502.	2.9	81
25	Quantifying the fraction of glycine and alanine in Î²-sheet and helical conformations in spider dragline silk using solid-state NMR. Chemical Communications, 2008, , 5568.	2.2	70
26	Bimodal phase percolation model for the structure of Ge-Se glasses and the existence of the intermediate phase. Physical Review B, 2009, 80, .	1.1	69
27	Inducing Î²-Sheets Formation in Synthetic Spider Silk Fibers by Aqueous Post-Spin Stretching. Biomacromolecules, 2011, 12, 2375-2381.	2.6	69
28	Characterizing the Secondary Protein Structure of Black Widow Dragline Silk Using Solid-State NMR and X-ray Diffraction. Biomacromolecules, 2013, 14, 3472-3483.	2.6	69
29	Î²-Sheet Nanocrystalline Domains Formed from Phosphorylated Serine-Rich Motifs in Caddisfly Larval Silk: A Solid State NMR and XRD Study. Biomacromolecules, 2013, 14, 1140-1148.	2.6	69
30	Thermal decomposition of ammonia borane at high pressures. Journal of Chemical Physics, 2009, 131, .	1.2	67
31	Combining flagelliform and dragline spider silk motifs to produce tunable synthetic biopolymer fibers. Biopolymers, 2012, 97, 418-431.	1.2	67
32	NMR Characterization of Ligand Binding and Exchange Dynamics in Triphenylphosphine-Capped Gold Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 16387-16393.	1.5	65
33	Solid-State NMR Comparison of Various Spidersâ€™ Dragline Silk Fiber. Biomacromolecules, 2010, 11, 2039-2043.	2.6	65
34	Elucidating silk structure using solid-state NMR. Soft Matter, 2013, 9, 11440.	1.2	65
35	Topological changes in glassyGeSe2at pressures up to9.3GPadetermined by high-energy x-ray and neutron diffraction measurements. Physical Review B, 2006, 74, .	1.1	64
36	Nephila clavipes Flagelliform Silk-Like GGX Motifs Contribute to Extensibility and Spacer Motifs Contribute to Strength in Synthetic Spider Silk Fibers. Biomacromolecules, 2013, 14, 1751-1760.	2.6	64

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37	Mechanical and Physical Properties of Recombinant Spider Silk Films Using Organic and Aqueous Solvents. Biomacromolecules, 2014, 15, 3158-3170.	2.6	64
38	NMR Characterization of Ionicity and Transport Properties for a Series of Diethylmethylamine Based Protic Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 4279-4285.	1.2	64
39	Pressure-induced crystallization of amorphous red phosphorus. Solid State Communications, 2012, 152, 390-394.	0.9	58
40	Direct Evidence of Chelated Geometry of Catechol on TiO₂ by a Combined Solid-State NMR and DFT Study. Journal of Physical Chemistry C, 2016, 120, 23625-23630.	1.5	55
41	Conserved C-Terminal Domain of Spider Tubuliform Spidroin 1 Contributes to Extensibility in Synthetic Fibers. Biomacromolecules, 2012, 13, 304-312.	2.6	53
42	CHEMISTRY: Polymorphism in Liquids. Science, 2004, 306, 820-821.	6.0	52
43	Effects of different post-spin stretching conditions on the mechanical properties of synthetic spider silk fibers. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 225-234.	1.5	52
44	Intermediate range chemical ordering in amorphous and liquid water, Si, and Ge. Physical Review B, 2005, 72, .	1.1	47
45	Reproducing Natural Spider Silksâ€™ Copolymer Behavior in Synthetic Silk Mimics. Biomacromolecules, 2012, 13, 3938-3948.	2.6	46
46	Structural Characterization and Aging of Glassy Pharmaceuticals made Using Acoustic Levitation. Journal of Pharmaceutical Sciences, 2013, 102, 1290-1300.	1.6	46
47	Hierarchical spidroin micellar nanoparticles as the fundamental precursors of spider silks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11507-11512.	3.3	46
48	Characterizing gold nanoparticles by NMR spectroscopy. Magnetic Resonance in Chemistry, 2018, 56, 1074-1082.	1.1	45
49	Proton-detected heteronuclear single quantum correlation NMR spectroscopy in rigid solids with ultra-fast MAS. Journal of Magnetic Resonance, 2010, 202, 64-71.	1.2	44
50	New High-Pressure Phase and Pressure-Induced Amorphization of Ca(OH)2: Grain Size Effect. Journal of Solid State Chemistry, 1996, 126, 300-307.	1.4	43
51	NMR Determination of the Diffusion Mechanisms in Triethylamine-Based Protic Ionic Liquids. Journal of Physical Chemistry Letters, 2011, 2, 1077-1081.	2.1	43
52	Low field magnetic resonance images of polarized noble gases obtained with a dc superconducting quantum interference device. Applied Physics Letters, 1998, 72, 1908-1910.	1.5	42
53	Scalar and anisotropicJinteractions in undoped InP: A triple-resonance NMR study. Physical Review B, 1998, 58, 8627-8633.	1.1	39
54	High-pressure behavior of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>As</mml:mtext></mml:mrow><mml:mn>2</mml:mn> Amorphous-amorphous and crystalline-amorphous transitions. Physical Review B, 2008, 77, .	1.1	39

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55	High resolution magic angle spinning NMR investigation of silk protein structure within major ampullate glands of orb weaving spiders. Soft Matter, 2012, 8, 1947-1954.	1.2	37
56	Structure and Dynamics of Aromatic Residues in Spider Silk: 2D Carbon Correlation NMR of Dragline Fibers. Biomacromolecules, 2010, 11, 168-174.	2.6	36
57	Reversible Assembly of Î²-Sheet Nanocrystals within Caddisfly Silk. Biomacromolecules, 2014, 15, 1269-1275.	2.6	34
58	A perforated diamond anvil cell for high-energy x-ray diffraction of liquids and amorphous solids at high pressure. Review of Scientific Instruments, 2010, 81, 035110.	0.6	32
59	Type I Clathrates as Novel Silicon Anodes: An Electrochemical and Structural Investigation. Advanced Science, 2015, 2, 1500057.	5.6	30
60	High-pressure Brillouin scattering of amorphous BeH2. Journal of Chemical Physics, 2006, 124, 014502.	1.2	29
61	Secondary Structure Adopted by the Gly-Gly-X Repetitive Regions of Dragline Spider Silk. International Journal of Molecular Sciences, 2016, 17, 2023.	1.8	29
62	Highly Efficient Fumed Silica Nanoparticles for Peptide Bond Formation: Converting Alanine to Alanine Anhydride. ACS Applied Materials & Interfaces, 2017, 9, 17653-17661.	4.0	28
63	High pressure x-ray diffraction measurements on Mg2SiO4 glass. Journal of Non-Crystalline Solids, 2011, 357, 2632-2636.	1.5	27
64	Surface and Wetting Properties of Embiopteran (Webspinner) Nanofiber Silk. Langmuir, 2016, 32, 4681-4687.	1.6	27
65	Structural quantum isotope effects in amorphous beryllium hydride. Journal of Chemical Physics, 2003, 119, 12499-12502.	1.2	26
66	Rapid Soft Tissue Approximation and Repair Using Laserâ€Activated Silk Nanosealants. Advanced Functional Materials, 2018, 28, 1802874.	7.8	26
67	Structural Changes in Vitreous GeSe₄ under Pressure. Journal of Physical Chemistry C, 2012, 116, 2212-2217.	1.5	25
68	Gold nanoparticle-doped silk film as biocompatible SERS substrate. RSC Advances, 2015, 5, 1937-1942.	1.7	25
69	On the Use of a Protic Ionic Liquid with a Novel Cation To Study Anion Basicity. Chemistry - A European Journal, 2016, 22, 13312-13319.	1.7	24
70	Electron Spin Density Distribution in the Polymer Phase ofCsC60: Assignment of the NMR Spectrum. Physical Review Letters, 2000, 84, 717-720.	2.9	23
71	Exploring the backbone dynamics of native spider silk proteins in Black Widow silk glands with solution-state NMR spectroscopy. Polymer, 2014, 55, 3879-3885.	1.8	23
72	Molecular Dynamics of Spider Dragline Silk Fiber Investigated by ²H MAS NMR. Biomacromolecules, 2015, 16, 852-859.	2.6	23

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73	Water soluble gold-polyaniline nanocomposite: A substrate for surface enhanced Raman scattering and catalyst for dye degradation. Arabian Journal of Chemistry, 2020, 13, 4009-4018.	2.3	23
74	Structural hysteresis in dragline spider silks induced by supercontraction: an X-ray fiber micro-diffraction study. RSC Advances, 2015, 5, 1462-1473.	1.7	22
75	Microscale Mechanism of Age Dependent Wetting Properties of Prickly Pear Cacti (Opuntia). Langmuir, 2016, 32, 9335-9341.	1.6	22
76	A flexible all-inorganic fuel cell membrane with conductivity above Nafion, and durable operation at 150ÂÂ°C. Journal of Power Sources, 2016, 303, 142-149.	4.0	22
77	A New Version of the Lithium Ion Conducting Plastic Crystal Solid Electrolyte. Advanced Energy Materials, 2018, 8, 1801324.	10.2	22
78	High-Pressure 1H and 13C Nuclear Magnetic Resonance in a Diamond Anvil Cell. Journal of Magnetic Resonance Series A, 1995, 114, 255-257.	1.6	21
79	Early stages of glacial clustering in supercooled triphenyl phosphite. Physical Review B, 2001, 64, .	1.1	20
80	Elucidating proline dynamics in spider dragline silk fibre using²Hâ€“¹³C HETCOR MAS NMR. Chemical Communications, 2014, 50, 4856-4859.	2.2	20
81	Structural characterization of nanofiber silk produced by embiopterans (webspinners). RSC Advances, 2014, 4, 41301-41313.	1.7	20
82	The Local Structure of Triphenyl Phosphite Studied Using Spallation Neutron and High-Energy X-ray Diffraction. Journal of Physical Chemistry B, 2004, 108, 20076-20082.	1.2	19
83	Total X-Ray Scattering of Spider Dragline Silk. Physical Review Letters, 2012, 108, 178102.	2.9	17
84	Synthesis, Postsynthetic Modifications, and Applications of the First Quinoxaline-Based Covalent Organic Framework. ACS Applied Materials & Interfaces, 2021, 13, 37494-37499.	4.0	17
85	Solid-State NMR Study of Ion-Exchange Processes in V[sub 2]O[sub 5] Xerogel, Polyaniline/V[sub 2]O[sub 5], and Sulfonated Polyaniline/V[sub 2]O[sub 5] Nanocomposites. Journal of the Electrochemical Society, 2003, 150, A1718.	1.3	16
86	Investigating Hydrogen-Bonded Phosphonic Acids with Proton Ultrafast MAS NMR and DFT Calculations. Journal of Physical Chemistry C, 2012, 116, 18824-18830.	1.5	16
87	7Li NMR Studies of Electrochemically Lithiated V2O5Xerogels. Chemistry of Materials, 2002, 14, 3875-3881.	3.2	15
88	Vibrational dynamics of amorphous beryllium hydride and lithium beryllium hydrides. Journal of Chemical Physics, 2008, 128, 134512.	1.2	15
89	Characterizing Pressure-Induced Coordination Changes in CaAl₂O₄ Glass Using ²⁷Al NMR. Journal of Physical Chemistry C, 2012, 116, 2068-2073.	1.5	15
90	Determining hydrogen-bond interactions in spider silk with 1Hâ€“13C HETCOR fast MAS solid-state NMR and DFT proton chemical shift calculations. Chemical Communications, 2013, 49, 6680.	2.2	15

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91	Colorimetric Dual Sensors of Metal Ions Based on 1,2,3-Triazole-4,5-Dicarboxylic Acid-Functionalized Gold Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 20459-20467.	1.5	15
92	Proton Transfer and Ionicity: An ¹⁵N NMR Study of Pyridine Base Protonation. Journal of Physical Chemistry B, 2019, 123, 1815-1821.	1.2	15
93	Extended range X-ray pair distribution functions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 955, 163318.	0.7	15
94	Orientational Correlations in the Glacial State of Triphenyl Phosphite. Journal of Physical Chemistry B, 2006, 110, 9747-9750.	1.2	14
95	The structure of permanently densified CaAl2O4 glass. Journal of Physics and Chemistry of Solids, 2006, 67, 2106-2110.	1.9	14
96	2Hâ€“13C HETCOR MAS NMR for indirect detection of 2H quadrupole patterns and spinâ€“lattice relaxation rates. Journal of Magnetic Resonance, 2013, 226, 1-12.	1.2	14
97	Protein secondary structure of Green Lynx spider dragline silk investigated by solid-state NMR and X-ray diffraction. International Journal of Biological Macromolecules, 2015, 81, 171-179.	3.6	14
98	High pressure angle-dispersive Brillouin spectroscopy: A technique for determining acoustic velocities and attenuations in liquids and solids. Review of Scientific Instruments, 2002, 73, 1235-1241.	0.6	13
99	The structure of densified As2O3 glasses. Journal of Non-Crystalline Solids, 2007, 353, 1755-1758.	1.5	13
100	A neutron-X-ray, NMR and calorimetric study of glassy Probucol synthesized using containerless techniques. Chemical Physics, 2013, 424, 89-92.	0.9	13
101	X-ray Intermolecular Structure Factor (XISF): separation of intra- and intermolecular interactions from total X-ray scattering data. Journal of Applied Crystallography, 2015, 48, 950-952.	1.9	13
102	Characterizing mixed phosphonic acid ligand capping on CdSe/ZnS quantum dots using ligand exchange and NMR spectroscopy. Magnetic Resonance in Chemistry, 2016, 54, 234-238.	1.1	13
103	Synthesis, Crystal Structure, NMR Studies, and Thermal Stability of Mixed Ironâ€'Indium Phosphates with Quasi-One-Dimensional Frameworks. Inorganic Chemistry, 1999, 38, 6032-6038.	1.9	12
104	Determining the equation of state of amorphous solids at high pressure using optical microscopy. Review of Scientific Instruments, 2012, 83, 033702.	0.6	12
105	Analysis of high-energy x-ray diffraction data at high pressure: the case of vitreous As₂O₃at 32 GPa. Journal of Physics Condensed Matter, 2007, 19, 415103.	0.7	11
106	Probing the Nature of Charge Transfer at Nanoâ€“Bio Interfaces: Peptides on Metal Oxide Nanoparticles. Journal of Physical Chemistry Letters, 2014, 5, 3555-3559.	2.1	11
107	Adsorption and release of surfactant into and from multifunctional zwitterionic poly(NIPAm-co-DMAPMA-co-AAc) microgel particles. Journal of Colloid and Interface Science, 2015, 449, 332-340.	5.0	11
108	A SAXS-WAXS study of the endothermic transitions in amorphous or supercooled liquid itraconazole. Thermochimica Acta, 2016, 644, 1-5.	1.2	11

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109	Polyamorphic Transitions in Network-Forming Liquids and Glasses. ACS Symposium Series, 1997, , 214-223.	0.5	9
110	Amino acid analysis of spider dragline silk using 1H NMR. Analytical Biochemistry, 2013, 440, 150-157.	1.1	9
111	Enhanced electrochemical performance of LiFe0.4Mn0.6(PO4)1â^'x(BO3)x as cathode material for lithium ion batteries. Journal of Electroanalytical Chemistry, 2015, 756, 56-60.	1.9	9
112	Probing site-specific 13C/15N-isotope enrichment of spider silk with liquid-state NMR spectroscopy. Analytical and Bioanalytical Chemistry, 2013, 405, 3997-4008.	1.9	8
113	Using containerless methods to develop amorphous pharmaceuticals. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3686-3692.	1.1	8
114	Understanding iridium oxide nanoparticle surface sites by their interaction with catechol. Physical Chemistry Chemical Physics, 2017, 19, 16151-16158.	1.3	8
115	Hydrogen mobility in the lightest reversible metal hydride, LiBeH3. Scientific Reports, 2017, 7, 16244.	1.6	8
116	NMR Titration Used to Observe Specific Proton Dissociation in Polyprotic Tripeptides: An Undergraduate Biochemistry Lab. Journal of Chemical Education, 1997, 74, 243.	1.1	7
117	Measurement of conductivity and permittivity on samples sealed in nuclear magnetic resonance tubes. Review of Scientific Instruments, 2013, 84, 073906.	0.6	7
118	Lysine-Capped Silica Nanoparticles: A Solid-State NMR Spectroscopy Study. MRS Advances, 2016, 1, 2261-2266.	0.5	7
119	Studies on TMPD:TCNB; a Donor-Acceptor with Room Temperature Paramagnetism and n-Ï€ Interactionâ€. Molecules, 2004, 9, 808-814.	1.7	6
120	Reorientation Times for Solid-State Electrolyte Solvents and Electrolytes from NMR Spinâ€“Lattice Relaxation Studies. Journal of Physical Chemistry Letters, 2020, 11, 3301-3304.	2.1	5
121	A High Energy X-ray Diffraction Study of Amorphous Indomethacin. Journal of Pharmaceutical Sciences, 2022, 111, 818-824.	1.6	5
122	Comment on â€˜Microscopic structural evolution during the liquidâ€“liquid transition in triphenyl phosphiteâ€™ by R Kurita, Y Shinohara, Y Amemiya and H Tanaka J. Phys.: Condens. Matter 19 (2007) 152101. Journal of Physics Condensed Matter, 2007, 19, 408001.	0.7	4
123	Relation of Ionic Conductivity to Solvent Rotation Times in Dinitrile Plastic Crystal Solvents. Journal of the Electrochemical Society, 2020, 167, 070553.	1.3	4
124	Hard x-ray methods for studying the structure of amorphous thin films and bulk glassy oxides. Journal of Physics Condensed Matter, 2021, 33, 194001.	0.7	4
125	On the structure of liquid antimony pentafluoride. Journal of Molecular Liquids, 2007, 131-132, 239-245.	2.3	3
126	Shear-induced rigidity in spider silk glands. Applied Physics Letters, 2012, 101, 103701.	1.5	3

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127	Thermodynamic interference with bile acid demicelleization reduces systemic entry and injury during cholestasis. Scientific Reports, 2020, 10, 8462.	1.6	2
128	Raman Scattering as a Probe of the Electronic Structure of Single-Wall Carbon Nanotubes Under High Pressure. AIP Conference Proceedings, 2005, , .	0.3	1
129	Brillouin spectroscopy of relaxor ferroelectrics and metal hydrides. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 519-522.	2.6	1
130	Pressure-induced transformations in crystalline and vitreous. Solid State Communications, 2009, 149, 1940-1943.	0.9	1
131	Structural Characterization of Caddisfly Silk with Solid-State NMR and X-Ray Diffraction. Biophysical Journal, 2014, 106, 227a.	0.2	1
132	Structure and Properties in Synthetic MSUM and the Corresponding Biomaterial. MRS Advances, 2016, 1, 2551-2556.	0.5	1
133	Silicon hydrogensulfates: solid acids with exceptional 25ÂÂ°C conductivities and possible electrochemical device applications. Journal of Materials Chemistry A, 2017, 5, 14092-14100.	5.2	1
134	NMR Characterization of Silk. New Developments in NMR, 2019, , 420-456.	0.1	1
135	Using Java to Animate the Vibrations of Molecules: Calculation and Visualization of Molecular Vibrations in (NSF)3. The Chemical Educator, 1996, 1, 1-8.	0.0	0
136	Diffusivity and Nuclear Spin Relaxation Measurements at High Pressure in Methanol. Materials Research Society Symposia Proceedings, 1997, 499, 295.	0.1	0
137	Transitions in network and molecular glasses at high pressure.. , 2009, , .		0
138	Reversible elastic deformation of functionalized sp2 carbon at pressures of up to 33â€‰GPa. Applied Physics Letters, 2014, 105, 141901.	1.5	0
139	Hierarchical Spidroin Micellar Nanoparticles as the Precursors of Spider Silks. Microscopy and Microanalysis, 2019, 25, 1346-1347.	0.2	0