Vincent H Crespi

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#	Paper	IF	Citations
203	Catalytic nanomotors: autonomous movement of striped nanorods. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13424-31	16.4	1506
202	Extraordinary room-temperature photoluminescence in triangular WS2 monolayers. <i>Nano Letters</i> , 2013 , 13, 3447-54	11.5	1145
201	Identification of individual and few layers of WS2 using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
200	Pure carbon nanoscale devices: Nanotube heterojunctions. <i>Physical Review Letters</i> , 1996 , 76, 971-974	7.4	767
199	Fully collapsed carbon nanotubes. <i>Nature</i> , 1995 , 377, 135-138	50.4	419
198	Microstructured optical fibers as high-pressure microfluidic reactors. <i>Science</i> , 2006 , 311, 1583-6	33.3	345
197	Registry-dependent interlayer potential for graphitic systems. <i>Physical Review B</i> , 2005 , 71,	3.3	333
196	Microscopic determination of the interlayer binding energy in graphite. <i>Chemical Physics Letters</i> , 1998 , 286, 490-496	2.5	326
195	Catalytic motors for transport of colloidal cargo. <i>Nano Letters</i> , 2008 , 8, 1271-6	11.5	304
194	Smoothest bearings: interlayer sliding in multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 85, 4727-30	7.4	282
193	In Situ Band Gap Engineering of Carbon Nanotubes. <i>Physical Review Letters</i> , 1997 , 79, 2093-2096	7.4	250
192	Plastic Deformations of Carbon Nanotubes. <i>Physical Review Letters</i> , 1998 , 81, 5346-5349	7.4	216
191	Extraordinary Second Harmonic Generation in tungsten disulfide monolayers. <i>Scientific Reports</i> , 2014 , 4, 5530	4.9	214
190	Prediction of a pure-carbon planar covalent metal. <i>Physical Review B</i> , 1996 , 53, R13303-R13305	3.3	208
189	Benzene-derived carbon nanothreads. <i>Nature Materials</i> , 2015 , 14, 43-7	27	207
188	Intrinsic magnetism of grain boundaries in two-dimensional metal dichalcogenides. <i>ACS Nano</i> , 2013 , 7, 10475-81	16.7	186
187	Crystallites of magnetic charges in artificial spin ice. <i>Nature</i> , 2013 , 500, 553-7	50.4	166

(2004-2017)

186	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017 , 3, e1602813	14.3	154
185	Non-oxidative intercalation and exfoliation of graphite by Brfisted acids. <i>Nature Chemistry</i> , 2014 , 6, 957-63	17.6	154
184	Anisotropic electron-beam damage and the collapse of carbon nanotubes. <i>Physical Review B</i> , 1996 , 54, 5927-5931	3.3	142
183	Intervalley scattering by acoustic phonons in two-dimensional MoS revealed by double-resonance Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 14670	17.4	141
182	Fabrication of three-dimensional polymer photonic crystal structures using single diffraction element interference lithography. <i>Applied Physics Letters</i> , 2003 , 82, 1667-1669	3.4	124
181	Selectively manipulable acoustic-powered microswimmers. <i>Scientific Reports</i> , 2015 , 5, 9744	4.9	123
180	Gapping by squashing: metal-insulator and insulator-metal transitions in collapsed carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 84, 2453-6	7.4	116
179	Fractional quantum Hall effect in graphene. <i>Physical Review B</i> , 2006 , 74,	3.3	114
178	Topological phases in graphitic cones. <i>Physical Review Letters</i> , 2000 , 85, 5190-3	7.4	110
177	Static conductivity and superconductivity of carbon nanotubes: Relations between tubes and sheets. <i>Physical Review B</i> , 1995 , 52, 14935-14940	3.3	106
176	Effect of pressure on the magnetoresistance of single crystal Nd0.5Sr0.36Pb0.14MnO3- delta. <i>Physical Review Letters</i> , 1996 , 76, 295-298	7·4	105
175	Condensation of helium in nanotube bundles. <i>Physical Review Letters</i> , 2000 , 84, 3883-6	7.4	103
174	Chemically doped double-walled carbon nanotubes: cylindrical molecular capacitors. <i>Physical Review Letters</i> , 2003 , 90, 257403	7.4	101
173	Computational design of direct-bandgap semiconductors that lattice-match silicon. <i>Nature</i> , 2001 , 409, 69-71	50.4	99
172	Effective temperature in an interacting vertex system: theory and experiment on artificial spin ice. <i>Physical Review Letters</i> , 2010 , 105, 047205	7.4	98
171	Ground state lost but degeneracy found: the effective thermodynamics of artificial spin ice. <i>Physical Review Letters</i> , 2007 , 98, 217203	7.4	98
170	Dynamic interactions between fast microscale rotors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9926-7	16.4	97
169	Graphene cones: Classification by fictitious flux and electronic properties. <i>Physical Review B</i> , 2004 , 69,	3.3	96

168	ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS). <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 631-640	6.4	94
167	Emergent, collective oscillations of self-mobile particles and patterned surfaces under redox conditions. <i>ACS Nano</i> , 2010 , 4, 4845-51	16.7	93
166	Smallest nanotube: breaking the symmetry of sp(3) bonds in tubular geometries. <i>Physical Review Letters</i> , 2001 , 87, 125502	7.4	89
165	Acoustic actuation of bioinspired microswimmers. <i>Lab on A Chip</i> , 2017 , 17, 395-400	7.2	85
164	Single-Wall Carbon Nanohorns and Nanocones. <i>Topics in Applied Physics</i> , 2007 , 605-629	0.5	75
163	Theory of carbon nanocones: mechanical chiral inversion of a micron-scale three-dimensional object. <i>Physical Review Letters</i> , 2004 , 93, 255504	7.4	74
162	Doping effects on the electronic and structural properties of CoO2: An LSDA+U study. <i>Physical Review B</i> , 2004 , 70,	3.3	73
161	Nondispersive Raman D band activated by well-ordered interlayer interactions in rotationally stacked bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	70
160	Defect-Controlled Nucleation and Orientation of WSe on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019 , 13, 3341-3352	16.7	70
159	Linearly Polymerized Benzene Arrays As Intermediates, Tracing Pathways to Carbon Nanothreads. Journal of the American Chemical Society, 2015 , 137, 14373-86	16.4	69
158	Molecular dynamics simulation study of xyloglucan adsorption on cellulose surfaces: effects of surface hydrophobicity and side-chain variation. <i>Cellulose</i> , 2014 , 21, 1025-1039	5.5	69
157	Reversible intercalation of hexagonal boron nitride with Brflsted acids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8372-81	16.4	69
156	Cellulose microfibril twist, mechanics, and implication for cellulose biosynthesis. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2580-9	2.8	67
155	Three-dimensional fluctuation conductivity in superconducting single crystal K3C60 and Rb3C60. <i>Nature</i> , 1993 , 361, 54-56	50.4	67
154	Magnetotransport properties of La0.6Pb0.4MnO3- delta and Nd0.6(Sr0.7Pb0.3)0.4MnO3- delta single crystals. <i>Physical Review B</i> , 1995 , 52, 9147-9150	3.3	66
153	Prediction that uniaxial tension along produces a direct band gap in germanium. <i>Physical Review Letters</i> , 2009 , 102, 156401	7.4	65
152	Low-Temperature Solution Synthesis of Few-Layer 1T RMoTe2 Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2830-4	16.4	63
151	Collective stabilization of hydrogen chemisorption on graphenic surfaces. <i>Physical Review B</i> , 2003 , 68,	3.3	62

(1993-2002)

150	Theory of B(2)O and BeB(2) nanotubes: new semiconductors and metals in one dimension. <i>Physical Review Letters</i> , 2002 , 89, 056403	7.4	62
149	Mechanochemical Synthesis of Carbon Nanothread Single Crystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16343-16349	16.4	61
148	Systematic Enumeration of sp(3) Nanothreads. <i>Nano Letters</i> , 2015 , 15, 5124-30	11.5	61
147	Direct entropy determination and application to artificial spin ice. <i>Nature Physics</i> , 2010 , 6, 786-789	16.2	60
146	Interstitial He and Ne in Nanotube Bundles. Journal of Low Temperature Physics, 1998, 113, 447-452	1.3	60
145	Universal behavior of nearly free electron states in carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 96, 196803	7.4	60
144	Stochastic heterostructures and diodium in B/N-doped carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 87, 136402	7.4	57
143	Carbon Nitride Nanothread Crystals Derived from Pyridine. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4969-4972	16.4	56
142	Electron-scattering mechanisms in single-crystal K3C60. <i>Physical Review B</i> , 1992 , 46, 12064-12067	3.3	56
141	Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	49
140	Intricate Resonant Raman Response in Anisotropic ReS. <i>Nano Letters</i> , 2017 , 17, 5897-5907	11.5	49
139	Nucleation of Carbon Nanotubes without Pentagonal Rings. <i>Physical Review Letters</i> , 1999 , 83, 1791-179	9 4 7.4	49
138	Perpendicular magnetization and generic realization of the Ising model in artificial spin ice. <i>Physical Review Letters</i> , 2012 , 109, 087201	7.4	47
137	Predictions of New Crystalline States for Assemblies of Nanoparticles: Perovskite Analogues and 3-D Arrays of Self-Assembled Nanowires. <i>Nano Letters</i> , 2003 , 3, 1183-1186	11.5	46
136	Relations between global and local topology in multiple nanotube junctions. <i>Physical Review B</i> , 1998 , 58, 12671-12671	3.3	46
135	Magneto-optical Kerr effect studies of square artificial spin ice. <i>Physical Review B</i> , 2011 , 84,	3.3	44
134	Effects of Intrinsic Fano Interference on Surface Enhanced Raman Spectroscopy: Comparison between Platinum and Gold. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18059-18066	3.8	43
133	Determination of superconducting and normal state parameters of single crystal K3C60. <i>Solid State Communications</i> , 1993 , 86, 643-646	1.6	43

132	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020 , 12, 284-293	17.6	42
131	1-Adamantanethiolate monolayer displacement kinetics follow a universal form. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10741-6	16.4	42
130	Plastic deformations of boron-nitride nanotubes: An unexpected weakness. <i>Physical Review B</i> , 2000 , 62, 11050-11053	3.3	41
129	Rubidium isotope effect in superconducting Rb3C60. <i>Physical Review Letters</i> , 1994 , 72, 3706-3709	7.4	41
128	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7817-7821	16.4	40
127	Localization in single-walled carbon nanotubes. Solid State Communications, 1998, 109, 105-109	1.6	40
126	Anharmonic phonons and high-temperature superconductivity. <i>Physical Review B</i> , 1993 , 48, 398-406	3.3	40
125	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 6982-6987	11.5	40
124	Analyzing the Motion of Benzene on Au{111}: Single Molecule Statistics from Scanning Probe Images. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6167-6182	3.8	38
123	Acoustofluidic actuation of in situ fabricated microrotors. <i>Lab on A Chip</i> , 2016 , 16, 3532-7	7.2	37
122	Guiding chiral self-propellers in a periodic potential. <i>Physical Review Letters</i> , 2015 , 115, 118101	7.4	36
121	Anharmonic phonons and the isotope effect in superconductivity. <i>Physical Review B</i> , 1991 , 43, 12921-12	2924	36
120	Helium in one-dimensional nanopores: free dispersion, localization, and commensurate/incommensurate transitions with nonrigid orbitals. <i>Physical Review Letters</i> , 2001 , 86, 3360-3	7.4	35
119	Nanotube-substrate interactions: distinguishing carbon nanotubes by the helical angle. <i>Physical Review Letters</i> , 2004 , 92, 085503	7.4	34
118	Thermopower of single-crystal Nd1-x(Sr,Pb)xMnO3- delta. <i>Physical Review B</i> , 1996 , 53, 14303-14308	3.3	33
117	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020 , 7, 2001174	13.6	33
116	The Chemical Structure of Carbon Nanothreads Analyzed by Advanced Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7658-7666	16.4	33
115	Defect Coupling and Sub-Angstrom Structural Distortions in WMoS Monolayers. <i>Nano Letters</i> , 2017 , 17, 2802-2808	11.5	32

114	Prediction of a multicenter-bonded solid boron hydride for hydrogen storage. <i>Physical Review B</i> , 2011 , 83,	3.3	32
113	Reversible lability by in situ reaction of self-assembled monolayers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2252-9	16.4	32
112	Carbon Isotope Effect in Single-Crystal Rb3C60. <i>Physical Review Letters</i> , 1999 , 83, 404-407	7.4	31
111	Discrete transverse superconducting modes in nanocylinders. <i>Physical Review B</i> , 2004 , 69,	3.3	30
110	Photoluminescence from nanocrystalline graphite monofluoride. <i>Applied Physics Letters</i> , 2010 , 97, 1419	91354	29
109	Anharmonic phonons and the anomalous isotope effect in La2-xSrxCuO4. <i>Physical Review B</i> , 1991 , 44, 4712-4715	3.3	29
108	Full orientation control of epitaxial MoS2 on hBN assisted by substrate defects. <i>Physical Review B</i> , 2019 , 99,	3.3	28
107	Evidence for ambient-temperature reversible catalytic hydrogenation in Pt-doped carbons. <i>Nano Letters</i> , 2013 , 13, 137-41	11.5	28
106	Site-selective radiation damage of collapsed carbon nanotubes. <i>Applied Physics Letters</i> , 1998 , 73, 2435-	24347	27
105	Resistivity saturation in alkali-doped C60. Solid State Communications, 1995, 93, 973-977	1.6	27
104	Controllable Edge Exposure of MoS2 for Efficient Hydrogen Evolution with High Current Density. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1268-1275	6.1	26
103	Chiral diffusion of rotary nanomotors. <i>Physical Review E</i> , 2013 , 87, 050301	2.4	26
102	Lithiation induced corrosive fracture in defective carbon nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 153901	3.4	25
101	Dynamics of cleaning, passivating and doping monolayer MoS 2 by controlled laser irradiation. <i>2D Materials</i> , 2019 , 6, 045031	5.9	24
100	A general flux-based analysis for spherical electrocatalytic nanomotors. <i>Physics of Fluids</i> , 2015 , 27, 0120	0 0 ₄ 14	24
99	Anomalous phonon stiffening associated with the (1 1 1) antiphase boundary in L12 Ni3Al. <i>Acta Materialia</i> , 2015 , 82, 287-294	8.4	23
98	Comparing frustrated and unfrustrated clusters of single-domain ferromagnetic islands. <i>Physical Review B</i> , 2010 , 82,	3.3	23
97	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. <i>APL Materials</i> , 2018 , 6, 08070	1 ^{5.7}	22

96	Characterization of complementary patterned metallic membranes produced simultaneously by a dual fabrication process. <i>Applied Physics Letters</i> , 2010 , 97, 193101	3.4	22
95	Curvature-induced D-band Raman scattering in folded graphene. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334205	1.8	22
94	Tuning magnetic frustration of nanomagnets in triangular-lattice geometry. <i>Applied Physics Letters</i> , 2008 , 93, 252504	3.4	22
93	Evidence for Orientational Order in Nanothreads Derived from Thiophene. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7164-7171	6.4	21
92	Magnetic perturbation and associated energies of the antiphase boundaries in ordered Ni3Al. <i>Journal of Applied Physics</i> , 2010 , 108, 103509	2.5	21
91	Local Temperature during the Growth of Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 1999 , 82, 2908-2910	7.4	21
90	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 284-291	11.5	21
89	Self-electrophoresis of spheroidal electrocatalytic swimmers. <i>Physics of Fluids</i> , 2015 , 27, 092002	4.4	20
88	Local Structure and Bonding of Carbon Nanothreads Probed by High-Resolution Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6937-6945	16.4	19
87	Nanomotor mechanisms and motive force distributions from nanorotor trajectories. <i>Physical Review E</i> , 2013 , 88, 062317	2.4	19
86	Metal-insulator transition in AC60: RbC60 and KC60. <i>Physical Review B</i> , 1997 , 56, 6627-6630	3.3	18
85	Electronic bisection of a single-wall carbon nanotube by controlled chemisorption. <i>Physical Review Letters</i> , 2007 , 99, 026802	7.4	18
84	Constraining Carbon Nanothread Structures by Experimental and Calculated Nuclear Magnetic Resonance Spectra. <i>Nano Letters</i> , 2018 , 18, 4934-4942	11.5	18
83	Ignoring your neighbors: moment correlations dominated by indirect or distant interactions in an ordered nanomagnet array. <i>Physical Review Letters</i> , 2011 , 107, 117204	7.4	17
82	Nanoarchitecture through Strained Molecules: Cubane-Derived Scaffolds and the Smallest Carbon Nanothreads. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17944-17955	16.4	16
81	Tuning Fermi-surface properties through quantum confinement in metallic metalattices: new metals from old atoms. <i>Physical Review Letters</i> , 2001 , 86, 696-9	7.4	16
80	Geometrical perturbation of graphene electronic structure. <i>Physical Review B</i> , 2000 , 61, 7308-7311	3.3	16
79	Heat capacity and vibrational spectra of monolayer films adsorbed in nanotubes. <i>Physical Review B</i> , 1998 , 58, R13426-R13429	3.3	16

(2013-2016)

78	Low-Temperature Solution Synthesis of Few-Layer 1T ?-MoTe2 Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie</i> , 2016 , 128, 2880-2884	3.6	15
77	Modeling electrostatically induced collapse transitions in carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 106, 155501	7.4	15
76	Stabilizing the zigzag edge: graphene nanoribbons with sterically constrained terminations. <i>Physical Review Letters</i> , 2012 , 109, 076802	7.4	15
<i>75</i>	Carbon nanostructures as an electromechanical bicontinuum. <i>Physical Review Letters</i> , 2007 , 99, 045501	7.4	15
74	Asymmetry in negative differential resistance driven by electron electron interactions in two-site molecular devices. <i>Applied Physics Letters</i> , 2001 , 79, 2829-2831	3.4	15
73	Kinematic matrix theory and universalities in self-propellers and active swimmers. <i>Physical Review E</i> , 2014 , 89, 062304	2.4	14
72	Static and dynamical phyllotaxis in a magnetic cactus. <i>Physical Review Letters</i> , 2009 , 102, 186103	7.4	14
71	Online Study Behavior of 100,000 Students Preparing for the SAT, ACT, and GRE. <i>Journal of Educational Computing Research</i> , 2004 , 30, 255-262	3.8	14
70	Possible discrepancies between transport and superconducting electron-phonon coupling due to anisotropic Fermi surface nesting. <i>Solid State Communications</i> , 1992 , 81, 187-189	1.6	14
69	Examination of biological hotspot hypothesis of primary cell wall using a computational cell wall network model. <i>Cellulose</i> , 2015 , 22, 1027-1038	5.5	13
68	Theory of Finite-Length Grain Boundaries of Controlled Misfit Angle in Two-Dimensional Materials. <i>Nano Letters</i> , 2017 , 17, 5297-5303	11.5	13
67	Constraints on ({rm I}beta) cellulose twist from DFT calculations of (^{13}hbox {C}) NMR chemical shifts. <i>Cellulose</i> , 2014 , 21, 3979-3991	5.5	13
66	Metallic membranes with subwavelength complementary patterns: distinct substrates for surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 5472-7	16.7	13
65	Gibbsianizing nonequilibrium dynamics of artificial spin ice and other spin systems. <i>New Journal of Physics</i> , 2012 , 14, 045009	2.9	13
64	Magnetotransport in single-crystal Rb3C60. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 228, 175-180	1.3	13
63	Achieving Minimal Heat Conductivity by Ballistic Confinement in Phononic Metalattices. <i>ACS Nano</i> , 2020 , 14, 4235-4243	16.7	12
62	Self-consistent nonlocal feedback theory for electrocatalytic swimmers with heterogeneous surface chemical kinetics. <i>Physical Review E</i> , 2015 , 91, 062303	2.4	12
61	Electronic properties of mixed-phase graphene/h-BN sheets using real-space pseudopotentials. <i>Physical Review B</i> , 2013 , 88,	3.3	12

60	Theory of genus reduction in alkali-induced graphitization of nanoporous carbon. <i>Physical Review B</i> , 2007 , 76,	3.3	12
59	KacrificialRsupramolecular assembly and pressure-induced polymerization: toward sequence-defined functionalized nanothreads. <i>Chemical Science</i> , 2020 , 11, 11419-11424	9.4	12
58	All the Ways To Have Substituted Nanothreads. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1131-1140	6.4	11
57	Annealing a magnetic cactus into phyllotaxis. <i>Physical Review E</i> , 2010 , 81, 046107	2.4	11
56	Theory of metastable group-IV alloys formed from CVD precursors. <i>Physical Review B</i> , 2001 , 64,	3.3	11
55	Universal form of Hall coefficient in K and Rb doped single crystal C60. <i>Physical Review Letters</i> , 1995 , 74, 1637-1640	7.4	11
54	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020 , 20, 8312-8318	11.5	11
53	Scalable Synthesis of Crystalline One-Dimensional Carbon Nanothreads through Modest-Pressure Polymerization of Furan. <i>ACS Nano</i> , 2021 , 15, 4134-4143	16.7	11
52	Modeling for Structural Engineering and Synthesis of Two-Dimensional WSe2 Using a Newly Developed ReaxFF Reactive Force Field. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28285-28297	3.8	10
51	Gaussian memory in kinematic matrix theory for self-propellers. <i>Physical Review E</i> , 2014 , 90, 062304	2.4	10
50	Theory of carbomorph cycles. <i>Physical Review Letters</i> , 2013 , 110, 156803	7.4	10
49	Helium mixtures in nanotube bundles. <i>Physical Review B</i> , 2000 , 61, 7288-7290	3.3	10
48	Simple estimate of electron-phonon coupling in small fullerenes. <i>Physical Review B</i> , 1999 , 60, 100-101	3.3	10
47	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. <i>Angewandte Chemie</i> , 2017 , 129, 7925-7929	3.6	9
46	Effect of bending on single-walled carbon nanotubes: A Raman scattering study. <i>Physical Review B</i> , 2010 , 81,	3.3	9
45	Abrupt topological transitions in the hysteresis curves of ferromagnetic metalattices. <i>Physical Review Letters</i> , 2002 , 89, 197203	7.4	9
44	Tuning transport across MoS2/graphene interfaces via as-grown lateral heterostructures. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	8
43	Anharmonic phonons and superconductivity in Pd H(D). Solid State Communications, 1992, 83, 427-429	1.6	8

(1993-2020)

42	Nondestructive Measurements of the Mechanical and Structural Properties of Nanostructured Metalattices. <i>Nano Letters</i> , 2020 , 20, 3306-3312	11.5	7
41	Structural, electronic, optical and vibrational properties of nanoscale carbons and nanowires: a colloquial review. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334201	1.8	7
40	Pressure dependence of the resistivity and magnetoresistance in single-crystal. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 7723-7731	1.8	7
39	Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation WS Monolayer Films. <i>Nano Letters</i> , 2021 , 21, 6487-6495	11.5	7
38	Bypassing slip velocity: rotational and translational velocities of autophoretic colloids in terms of surface flux. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 294-304	3.7	6
37	Characterization of switching field distributions in Ising-like magnetic arrays. <i>Physical Review B</i> , 2017 , 95,	3.3	6
36	Reciprocal space constraints create real-space anomalies in doped carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 99, 196803	7.4	6
35	Scattering mechanisms in Rb-doped single-crystal C60. <i>Physical Review B</i> , 1995 , 52, 3619-3623	3.3	6
34	Alkali-metal isotope effect in Rb3C60. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2493-2494	1.3	6
33	Imaging the stochastic microstructure and dynamic development of correlations in perpendicular artificial spin ice. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
32	Magnetization states and switching in narrow-gapped ferromagnetic nanorings. <i>AIP Advances</i> , 2012 , 2, 012136	1.5	6
31	NanoVelcro: Theory of Guided Folding in Atomically Thin Sheets with Regions of Complementary Doping. <i>Nano Letters</i> , 2017 , 17, 6708-6714	11.5	5
30	Distinguishing advective and powered motion in self-propelled colloids. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 445101	1.8	5
29	Tuning Transport and Chemical Sensitivity via Niobium Doping of Synthetic MoS2. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000856	4.6	5
28	Near constancy of the pressure dependence of Tc across families of organic and fullerene superconductors. <i>Physical Review B</i> , 1996 , 53, 56-58	3.3	4
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