Vincent H Crespi

List of Publications by Year in Descending Order

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116 14,221 203 59 h-index g-index citations papers 8.1 15,803 6.34 221 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
203	Mutual information and breakdown of the Perron-Frobenius scenario in zero-temperature triangular Ising antiferromagnets on cylinders <i>Physical Review E</i> , 2022 , 105, 044105	2.4	
202	Cryogenic Transmission Electron Microscopy Investigation of Carbon Nanothreads. <i>Microscopy and Microanalysis</i> , 2021 , 27, 684-685	0.5	1
201	Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation WS Monolayer Films. <i>Nano Letters</i> , 2021 , 21, 6487-6495	11.5	7
200	Field-Tunable Interactions and Frustration in Underlayer-Mediated Artificial Spin Ice. <i>Physical Review Letters</i> , 2021 , 127, 117203	7.4	3
199	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
198	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
197	Tuning transport across MoS2/graphene interfaces via as-grown lateral heterostructures. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	8
196	Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	49
195	Achieving Minimal Heat Conductivity by Ballistic Confinement in Phononic Metalattices. <i>ACS Nano</i> , 2020 , 14, 4235-4243	16.7	12
194	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020 , 12, 284-293	17.6	42
193	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
192	Nondestructive Measurements of the Mechanical and Structural Properties of Nanostructured Metalattices. <i>Nano Letters</i> , 2020 , 20, 3306-3312	11.5	7
191	Imaging the stochastic microstructure and dynamic development of correlations in perpendicular artificial spin ice. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
190	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 284-291	11.5	21
189	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020 , 20, 8312-8318	11.5	11
188	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020 , 7, 2001174	13.6	33
187	Tuning Transport and Chemical Sensitivity via Niobium Doping of Synthetic MoS2. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000856	4.6	5

(2017-2020)

18	SacrificialRsupramolecular assembly and pressure-induced polymerization: toward sequence-defined functionalized nanothreads. <i>Chemical Science</i> , 2020 , 11, 11419-11424	9.4	12	
18	Coupling Between Colloidal Assemblies Can Drive a Bistable-to-Oscillatory Transition. ChemSystemsChem, 2020 , 2, e1900036	3.1	1	
18	Ultra-low thermal conductivity and acoustic dynamics of Si nanostructured metalattices probed using ultrafast high harmonic beams. <i>EPJ Web of Conferences</i> , 2019 , 205, 04006	0.3		
18	Full orientation control of epitaxial MoS2 on hBN assisted by substrate defects. <i>Physical Review B</i> , 2019 , 99,	3.3	28	
18	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	
18	Dynamics of cleaning, passivating and doping monolayer MoS 2 by controlled laser irradiation. <i>2D</i> Materials, 2019 , 6, 045031	5.9	24	
18	Evidence for Orientational Order in Nanothreads Derived from Thiophene. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7164-7171	6.4	21	
17	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	
17	Probing the origin of lateral heterogeneities in synthetic monolayer molybdenum disulfide. <i>2D Materials</i> , 2019 , 6, 025008	5.9	2	
17	Controllable Edge Exposure of MoS2 for Efficient Hydrogen Evolution with High Current Density. ACS Applied Energy Materials, 2018 , 1, 1268-1275	6.1	26	
17	Dual-Sided Adsorption: Devil® Staircase of Coverage Fractions. <i>Physical Review Letters</i> , 2018 , 120, 056	10 / 14	1	
17	All the Ways To Have Substituted Nanothreads. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1131-1140	6.4	11	
17	Carbon Nitride Nanothread Crystals Derived from Pyridine. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4969-4972	16.4	56	
17	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	15.7	22	
17	Communicating through a sea of frustration: Zero-temperature triangular Ising antiferromagnet on a cylinder. <i>Physical Review E</i> , 2018 , 98,	2.4	1	
17	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	
17	Constraining Carbon Nanothread Structures by Experimental and Calculated Nuclear Magnetic Resonance Spectra. <i>Nano Letters</i> , 2018 , 18, 4934-4942	11.5	18	
16	ReaxFF Reactive Force-Field Study of Molybdenum Disulfide (MoS). <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 631-640	6.4	94	

168	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
167	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7817-7821	16.4	40
166	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017 , 3, e1602813	14.3	154
165	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. <i>Angewandte Chemie</i> , 2017 , 129, 7925-7929	3.6	9
164	Defect Coupling and Sub-Angstrom Structural Distortions in WMoS Monolayers. <i>Nano Letters</i> , 2017 , 17, 2802-2808	11.5	32
163	Acoustic actuation of bioinspired microswimmers. <i>Lab on A Chip</i> , 2017 , 17, 395-400	7.2	85
162	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
161	Mechanochemical Synthesis of Carbon Nanothread Single Crystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16343-16349	16.4	61
160	Distinguishing advective and powered motion in self-propelled colloids. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 445101	1.8	5
159	Characterization of switching field distributions in Ising-like magnetic arrays. <i>Physical Review B</i> , 2017 , 95,	3.3	6
158	Intricate Resonant Raman Response in Anisotropic ReS. <i>Nano Letters</i> , 2017 , 17, 5897-5907	11.5	49
157	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
156	Adsorption-induced shape transitions in bistable nanopores with atomically thin walls. <i>Physical Review E</i> , 2017 , 95, 012804	2.4	1
155	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
154	Low-Temperature Solution Synthesis of Few-Layer 1T ?-MoTe2 Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie</i> , 2016 , 128, 2880-2884	3.6	15
153	Observation of a Quasi-ordered Structure in Monolayer W x Mo (1-x) S 2 Alloys. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1548-1549	0.5	1
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	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 6982-6987	11.5	40

150	Acoustofluidic actuation of in situ fabricated microrotors. Lab on A Chip, 2016, 16, 3532-7	7.2	37
149	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
148	Selectively manipulable acoustic-powered microswimmers. Scientific Reports, 2015, 5, 9744	4.9	123
147	Linearly Polymerized Benzene Arrays As Intermediates, Tracing Pathways to Carbon Nanothreads. Journal of the American Chemical Society, 2015 , 137, 14373-86	16.4	69
146	Systematic Enumeration of sp(3) Nanothreads. <i>Nano Letters</i> , 2015 , 15, 5124-30	11.5	61
145	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
144	Benzene-derived carbon nanothreads. <i>Nature Materials</i> , 2015 , 14, 43-7	27	207
143	Self-consistent nonlocal feedback theory for electrocatalytic swimmers with heterogeneous surface chemical kinetics. <i>Physical Review E</i> , 2015 , 91, 062303	2.4	12
142	Guiding chiral self-propellers in a periodic potential. <i>Physical Review Letters</i> , 2015 , 115, 118101	7.4	36
141	Self-electrophoresis of spheroidal electrocatalytic swimmers. <i>Physics of Fluids</i> , 2015 , 27, 092002	4.4	20
140	A general flux-based analysis for spherical electrocatalytic nanomotors. <i>Physics of Fluids</i> , 2015 , 27, 0120	00,14	24
139	Extraordinary Second Harmonic Generation in tungsten disulfide monolayers. <i>Scientific Reports</i> , 2014 , 4, 5530	4.9	214
138	Non-oxidative intercalation and exfoliation of graphite by Brflsted acids. <i>Nature Chemistry</i> , 2014 , 6, 957-63	17.6	154
137	Kinematic matrix theory and universalities in self-propellers and active swimmers. <i>Physical Review E</i> , 2014 , 89, 062304	2.4	14
136	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
135	Gaussian memory in kinematic matrix theory for self-propellers. <i>Physical Review E</i> , 2014 , 90, 062304	2.4	10
134	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
133	Theory of electrocaloric effect in a shape-changing container: gas in a nanotube. <i>Physical Review Letters</i> , 2014 , 113, 265501	7.4	

132	Crystallites of magnetic charges in artificial spin ice. <i>Nature</i> , 2013 , 500, 553-7	50.4	166
131	Intrinsic magnetism of grain boundaries in two-dimensional metal dichalcogenides. <i>ACS Nano</i> , 2013 , 7, 10475-81	16.7	186
130	Evidence for ambient-temperature reversible catalytic hydrogenation in Pt-doped carbons. <i>Nano Letters</i> , 2013 , 13, 137-41	11.5	28
129	Extraordinary room-temperature photoluminescence in triangular WS2 monolayers. <i>Nano Letters</i> , 2013 , 13, 3447-54	11.5	1145
128	Theory of carbomorph cycles. <i>Physical Review Letters</i> , 2013 , 110, 156803	7.4	10
127	Cellulose microfibril twist, mechanics, and implication for cellulose biosynthesis. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2580-9	2.8	67
126	Reversible intercalation of hexagonal boron nitride with Brāsted acids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8372-81	16.4	69
125	Identification of individual and few layers of WS2 using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
124	Lithiation induced corrosive fracture in defective carbon nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 153901	3.4	25
123	Nanomotor mechanisms and motive force distributions from nanorotor trajectories. <i>Physical Review E</i> , 2013 , 88, 062317	2.4	19
122	Electronic properties of mixed-phase graphene/h-BN sheets using real-space pseudopotentials. <i>Physical Review B</i> , 2013 , 88,	3.3	12
121	Chiral diffusion of rotary nanomotors. <i>Physical Review E</i> , 2013 , 87, 050301	2.4	26
120	Perpendicular magnetization and generic realization of the Ising model in artificial spin ice. <i>Physical Review Letters</i> , 2012 , 109, 087201	7.4	47
119	Gibbsianizing nonequilibrium dynamics of artificial spin ice and other spin systems. <i>New Journal of Physics</i> , 2012 , 14, 045009	2.9	13
118	Stabilizing the zigzag edge: graphene nanoribbons with sterically constrained terminations. <i>Physical Review Letters</i> , 2012 , 109, 076802	7.4	15
117	Magnetization states and switching in narrow-gapped ferromagnetic nanorings. <i>AIP Advances</i> , 2012 , 2, 012136	1.5	6
116	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
115	Metallic membranes with subwavelength complementary patterns: distinct substrates for surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 5472-7	16.7	13

(2010-2011)

114	Prediction of a multicenter-bonded solid boron hydride for hydrogen storage. <i>Physical Review B</i> , 2011 , 83,	3.3	32
113	Modeling electrostatically induced collapse transitions in carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 106, 155501	7.4	15
112	Magneto-optical Kerr effect studies of square artificial spin ice. <i>Physical Review B</i> , 2011 , 84,	3.3	44
111	Direct entropy determination and application to artificial spin ice. <i>Nature Physics</i> , 2010 , 6, 786-789	16.2	60
110	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
109	Characterization of complementary patterned metallic membranes produced simultaneously by a dual fabrication process. <i>Applied Physics Letters</i> , 2010 , 97, 193101	3.4	22
108	Theory of a three-dimensional nanoporous silicon lattice with unsaturated bonding. <i>Applied Physics Letters</i> , 2010 , 97, 121906	3.4	3
107	Annealing a magnetic cactus into phyllotaxis. <i>Physical Review E</i> , 2010 , 81, 046107	2.4	11
106	Magnetic perturbation and associated energies of the antiphase boundaries in ordered Ni3Al. <i>Journal of Applied Physics</i> , 2010 , 108, 103509	2.5	21
105	Emergent, collective oscillations of self-mobile particles and patterned surfaces under redox conditions. <i>ACS Nano</i> , 2010 , 4, 4845-51	16.7	93
104	Photoluminescence from nanocrystalline graphite monofluoride. <i>Applied Physics Letters</i> , 2010 , 97, 1419	1354	29
103	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
102	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
101	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
100	Comparing frustrated and unfrustrated clusters of single-domain ferromagnetic islands. <i>Physical Review B</i> , 2010 , 82,	3.3	23
99	Peter Clay Eklund: a scientific biography. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 330301	1.8	
98	Curvature-induced D-band Raman scattering in folded graphene. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334205	1.8	22
97	Effect of bending on single-walled carbon nanotubes: A Raman scattering study. <i>Physical Review B</i> , 2010 , 81,	3.3	9

96	Prediction that uniaxial tension along produces a direct band gap in germanium. <i>Physical Review Letters</i> , 2009 , 102, 156401	7.4	65
95	An algorithm to sculpt photon dispersion in a subwavelength nanostructure. <i>Applied Physics Letters</i> , 2009 , 94, 041115	3.4	1
94	Static and dynamical phyllotaxis in a magnetic cactus. <i>Physical Review Letters</i> , 2009 , 102, 186103	7.4	14
93	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
92	Dynamic interactions between fast microscale rotors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9926-7	16.4	97
91	Catalytic motors for transport of colloidal cargo. <i>Nano Letters</i> , 2008 , 8, 1271-6	11.5	304
90	Lithographically Fabricated 10-Micron Scale Autonomous Motors. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1135, 30901		
89	Tuning magnetic frustration of nanomagnets in triangular-lattice geometry. <i>Applied Physics Letters</i> , 2008 , 93, 252504	3.4	22
88	Spin Control Without Magnetic Fields. <i>Physics Magazine</i> , 2008 , 1,	1.1	3
87	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
86	Single-Wall Carbon Nanohorns and Nanocones. <i>Topics in Applied Physics</i> , 2007 , 605-629	0.5	75
85	Electronic bisection of a single-wall carbon nanotube by controlled chemisorption. <i>Physical Review Letters</i> , 2007 , 99, 026802	7.4	18
84	Carbon nanostructures as an electromechanical bicontinuum. <i>Physical Review Letters</i> , 2007 , 99, 045501	7.4	15
83	Ground state lost but degeneracy found: the effective thermodynamics of artificial spin ice. <i>Physical Review Letters</i> , 2007 , 98, 217203	7.4	98
82	Theory of genus reduction in alkali-induced graphitization of nanoporous carbon. <i>Physical Review B</i> , 2007 , 76,	3.3	12
81	Reciprocal space constraints create real-space anomalies in doped carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 99, 196803	7.4	6
80	1-Adamantanethiolate monolayer displacement kinetics follow a universal form. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10741-6	16.4	42
79	Fractional quantum Hall effect in graphene. <i>Physical Review B</i> , 2006 , 74,	3.3	114

78 High pressure CVD inside microstructured optical fibres 2006, 2 Universal behavior of nearly free electron states in carbon nanotubes. Physical Review Letters, 2006 7.4 60 77 , 96, 196803 Microstructured optical fibers as high-pressure microfluidic reactors. Science, 2006, 311, 1583-6 76 33.3 345 Registry-dependent interlayer potential for graphitic systems. Physical Review B, 2005, 71, 75 3.3 333 Uperconductivity in Fulleride 2005, 231-253 74 The Geometry of Nanoscale Carbon. Nanostructure Science and Technology, 2004, 103-118 0.9 73 Nanotube-substrate interactions: distinguishing carbon nanotubes by the helical angle. Physical 72 7.4 34 Review Letters, 2004, 92, 085503 Graphene cones: Classification by fictitious flux and electronic properties. Physical Review B, 2004, 3.3 96 Online Study Behavior of 100,000 Students Preparing for the SAT, ACT, and GRE. Journal of 3.8 70 14 Educational Computing Research, 2004, 30, 255-262 69 Catalytic Nanomotors: Autonomous Movement of Striped Nanorods.. ChemInform, 2004, 35, no Catalytic nanomotors: autonomous movement of striped nanorods. Journal of the American 68 16.4 1506 Chemical Society, 2004, 126, 13424-31 Theory of carbon nanocones: mechanical chiral inversion of a micron-scale three-dimensional 67 7.4 74 object. Physical Review Letters, 2004, 93, 255504 66 Discrete transverse superconducting modes in nanocylinders. Physical Review B, 2004, 69, 3.3 30 Doping effects on the electronic and structural properties of CoO2: An LSDA+U study. Physical 65 3.3 73 Review B, 2004, 70, Predictions of New Crystalline States for Assemblies of Nanoparticles: Perovskite Analogues and 64 11.5 46 3-D Arrays of Self-Assembled Nanowires. Nano Letters, 2003, 3, 1183-1186 Chemically doped double-walled carbon nanotubes: cylindrical molecular capacitors. Physical 63 101 7.4 Review Letters, 2003, 90, 257403 Collective stabilization of hydrogen chemisorption on graphenic surfaces. Physical Review B, 2003, 62 62 3.3 68, Fabrication of three-dimensional polymer photonic crystal structures using single diffraction 61 124 3.4 element interference lithography. Applied Physics Letters, 2003, 82, 1667-1669

60	Abrupt topological transitions in the hysteresis curves of ferromagnetic metalattices. <i>Physical Review Letters</i> , 2002 , 89, 197203	7.4	9
59	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
58	Computational design of direct-bandgap semiconductors that lattice-match silicon. <i>Nature</i> , 2001 , 409, 69-71	50.4	99
57	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
56	Stochastic heterostructures and diodium in B/N-doped carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 87, 136402	7.4	57
55	Smallest nanotube: breaking the symmetry of sp(3) bonds in tubular geometries. <i>Physical Review Letters</i> , 2001 , 87, 125502	7.4	89
54	Asymmetry in negative differential resistance driven by electron lectron interactions in two-site molecular devices. <i>Applied Physics Letters</i> , 2001 , 79, 2829-2831	3.4	15
53	Theory of metastable group-IV alloys formed from CVD precursors. <i>Physical Review B</i> , 2001 , 64,	3.3	11
52	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
51	Validity of the BCS model Hamiltonian in the limit of small sizes. <i>Physical Review B</i> , 2000 , 62, 8669-8670	3.3	2
50	Condensation of helium in nanotube bundles. <i>Physical Review Letters</i> , 2000 , 84, 3883-6	7.4	103
49	Smoothest bearings: interlayer sliding in multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 85, 4727-30	7.4	282
48	Geometrical perturbation of graphene electronic structure. <i>Physical Review B</i> , 2000 , 61, 7308-7311	3.3	16
47	Helium mixtures in nanotube bundles. <i>Physical Review B</i> , 2000 , 61, 7288-7290	3.3	10
46	Plastic deformations of boron-nitride nanotubes: An unexpected weakness. <i>Physical Review B</i> , 2000 , 62, 11050-11053	3.3	41
45	Topological phases in graphitic cones. <i>Physical Review Letters</i> , 2000 , 85, 5190-3	7.4	110
44	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
43	Nucleation of Carbon Nanotubes without Pentagonal Rings. <i>Physical Review Letters</i> , 1999 , 83, 1791-179	94 7.4	49

42	Simple estimate of electron-phonon coupling in small fullerenes. <i>Physical Review B</i> , 1999 , 60, 100-101	3.3	10
41	Local Temperature during the Growth of Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 1999 , 82, 2908-2910	7.4	21
40	Carbon Isotope Effect in Single-Crystal Rb3C60. <i>Physical Review Letters</i> , 1999 , 83, 404-407	7.4	31
39	Rankings of Research-Active Departments. <i>Science</i> , 1999 , 285, 1355-1355	33.3	
38	Microscopic determination of the interlayer binding energy in graphite. <i>Chemical Physics Letters</i> , 1998 , 286, 490-496	2.5	326
37	Interstitial He and Ne in Nanotube Bundles. <i>Journal of Low Temperature Physics</i> , 1998 , 113, 447-452	1.3	60
36	Localization in single-walled carbon nanotubes. Solid State Communications, 1998, 109, 105-109	1.6	40
35	Site-selective radiation damage of collapsed carbon nanotubes. <i>Applied Physics Letters</i> , 1998 , 73, 2435-	2 4 347	27
34	Plastic Deformations of Carbon Nanotubes. <i>Physical Review Letters</i> , 1998 , 81, 5346-5349	7.4	216
33	Relations between global and local topology in multiple nanotube junctions. <i>Physical Review B</i> , 1998 , 58, 12671-12671	3.3	46
32	Heat capacity and vibrational spectra of monolayer films adsorbed in nanotubes. <i>Physical Review B</i> , 1998 , 58, R13426-R13429	3.3	16
31	Metal-insulator transition in AC60: RbC60 and KC60. <i>Physical Review B</i> , 1997 , 56, 6627-6630	3.3	18
30	In Situ Band Gap Engineering of Carbon Nanotubes. <i>Physical Review Letters</i> , 1997 , 79, 2093-2096	7.4	250
29	Pressure dependence of the resistivity and magnetoresistance in single-crystal. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 7723-7731	1.8	7
28	Pure carbon nanoscale devices: Nanotube heterojunctions. <i>Physical Review Letters</i> , 1996 , 76, 971-974	7.4	767
27	Prediction of a pure-carbon planar covalent metal. <i>Physical Review B</i> , 1996 , 53, R13303-R13305	3.3	208
26	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
25	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

24	Thermopower of single-crystal Nd1-x(Sr,Pb)xMnO3- delta. <i>Physical Review B</i> , 1996 , 53, 14303-14308	3.3	33
23	Anisotropic electron-beam damage and the collapse of carbon nanotubes. <i>Physical Review B</i> , 1996 , 54, 5927-5931	3.3	142
22	Fully collapsed carbon nanotubes. <i>Nature</i> , 1995 , 377, 135-138	50.4	419
21	Resistivity saturation in alkali-doped C60. Solid State Communications, 1995, 93, 973-977	1.6	27
20	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
19	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
18	Scattering mechanisms in Rb-doped single-crystal C60. <i>Physical Review B</i> , 1995 , 52, 3619-3623	3.3	6
17	Static conductivity and superconductivity of carbon nanotubes: Relations between tubes and sheets. <i>Physical Review B</i> , 1995 , 52, 14935-14940	3.3	106
16	Rubidium isotope effect in superconducting Rb3C60. <i>Physical Review Letters</i> , 1994 , 72, 3706-3709	7.4	41
15	Magnetotransport in single-crystal Rb3C60. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 228, 175-180	1.3	13
14	Alkali-metal isotope effect in Rb3C60. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2493-2494	1.3	6
13	Superconducting Properties of K3C60 and Rb3C60 Single Crystals in High Fields. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 245, 333-337		1
12	Inverse isotope effects and models for high-Tc superconductivity. <i>Physical Review B</i> , 1993 , 47, 5528-553	30 .3	3
11	Anharmonic phonons and high-temperature superconductivity. <i>Physical Review B</i> , 1993 , 48, 398-406	3.3	40
10	Determination of superconducting and normal state parameters of single crystal K3C60. <i>Solid State Communications</i> , 1993 , 86, 643-646	1.6	43
9	Anharmonic phonons and site selective isotope effects in YBa2⊠MxCu3O7 (M = La, Sr). <i>Solid State Communications</i> , 1993 , 86, 161-164	1.6	3
8	Three-dimensional fluctuation conductivity in superconducting single crystal K3C60 and Rb3C60. <i>Nature</i> , 1993 , 361, 54-56	50.4	67
7	Electron-scattering mechanisms in single-crystal K3C60. <i>Physical Review B</i> , 1992 , 46, 12064-12067	3.3	56

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6	Anharmonic phonons and superconductivity in Pd H(D). <i>Solid State Communications</i> , 1992 , 83, 427-429 1.6	8
5	Possible discrepancies between transport and superconducting electron-phonon coupling due to anisotropic Fermi surface nesting. <i>Solid State Communications</i> , 1992 , 81, 187-189	14
4	Anharmonic phonons and the anomalous isotope effect in La2-xSrxCuO4. <i>Physical Review B</i> , 1991 , 44, 4712-4715	29
3	Anharmonic phonons and the isotope effect in superconductivity. <i>Physical Review B</i> , 1991 , 43, 12921-12924	36
2	Synthesizing carbon nanothreads from benzene. SPIE Newsroom,	2
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