

High pressure effects revisited for the cuprate superconductor critical temperature

Nature Communications

6, 8990

DOI: [10.1038/ncomms9990](https://doi.org/10.1038/ncomms9990)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Emergent functions of quantum materials. Nature Physics, 2017, 13, 1056-1068.	16.7	307
2	Self-Doping Effect Arising from Electron Correlations in Multilayer Cuprates. Journal of the Physical Society of Japan, 2017, 86, 084707.	1.6	3
3	Evidence for Weakly Correlated Oxygen Holes in the Highest- T _c Cuprate Superconductor HgBa ₂ Ca ₂ Cu ₃ O ₈ + δ . Physical Review Letters, 2017, 119, 057001.	7.8	9
4	Uniaxial strain effects on the superconducting transition in Re-doped Hg-1223 cuprate superconductors. Physical Review B, 2017, 95, .	3.2	15
5	Possible anomalous transitional transport of electronic fluids in hydrogen sulphide under high pressures. Journal of Molecular Liquids, 2017, 225, 883-887.	4.9	2
6	High-Pressure Neutron Science. Experimental Methods in the Physical Sciences, 2017, , 637-681.	0.1	1
7	Pressure, temperature, and thickness dependence of transmittance in a 1D superconductor-semiconductor photonic crystal. Journal of Applied Physics, 2018, 123, .	2.5	54
8	Fano Resonance by Means of the One-Dimensional Superconductor Photonic Crystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3827-3833.	1.8	32
9	Superconductivity arising from layer differentiation in multilayer cuprates. Physical Review B, 2018, 98, .	3.2	3
10	Tuning of transmittance spectrum in a one-dimensional superconductor-semiconductor photonic crystal. Physica B: Condensed Matter, 2018, 543, 7-13.	2.7	43
11	Electronic structures and transition temperatures of high-T cuprate superconductors from first-principles calculations and Landau theory. Journal of Alloys and Compounds, 2018, 764, 869-880.	5.5	11
12	Dependence of the defect mode with temperature, pressure and angle of incidence in a 1D semiconductor-superconductor photonic crystal. Physica C: Superconductivity and Its Applications, 2018, 553, 1-7.	1.2	41
13	Enhancement of superconducting properties and flux pinning mechanism on Cr _{0.0005} NbSe ₂ single crystal under Hydrostatic pressure. Scientific Reports, 2019, 9, 347.	3.3	19
14	Transmittance spectrum of a superconductor-semiconductor quasiperiodic one-dimensional photonic crystal. Physica C: Superconductivity and Its Applications, 2019, 563, 10-15.	1.2	22
15	Cutoff frequency tuning in a one-dimensional photonic crystal comprising HgBa ₂ Ca ₂ Cu ₃ O ₈ + δ and GaAs. Physica C: Superconductivity and Its Applications, 2019, 561, 58-63.	1.2	6
16	Tunable transmittance spectrum in one-dimensional photonic crystals composed of HgBa ₂ Ca ₂ Cu ₃ O ₈ + δ /GaAs with a defective GaAs layer. Optik, 2019, 181, 493-498.	2.9	7
17	Tuning of the defect mode in a 1D superconductor-semiconductor crystal with hydrostatic pressure dependent frequency of the transverse optical phonons. Physica C: Superconductivity and Its Applications, 2019, 556, 7-13.	1.2	28
18	Superconducting and pseudogap transition temperatures in high-T _c cuprates and the T _c dependence on pressure. Superconductor Science and Technology, 2020, 33, 035009.	3.5	9

#	ARTICLE	IF	CITATIONS
19	Effects of temperature, pressure and thickness on a one-dimensional Thue-Morse photonic crystal. <i>Optik</i> , 2020, 203, 163887.	2.9	9
20	Investigation of the transport, magnetic and flux pinning properties of the noncentrosymmetric superconductor TaRh ₂ B ₂ under hydrostatic pressure. <i>Physica C: Superconductivity and Its Applications</i> , 2020, 571, 1353586.	1.2	6
21	Superconductor-semiconductor one-dimensional photonic crystal using a cancer cell as a defect layer. <i>Optik</i> , 2020, 224, 165465.	2.9	5
22	Transmittance spectrum in a semiconductor-superconductor quasi-periodic Thue-Morse one-dimensional photonic crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2020, 579, 1353768.	1.2	4
23	Influence of Dysprosium Addition on the Phase Formation and Transport Properties of Hg-1223 Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 3401-3405.	1.8	2
24	Transmittance spectrum in a one-dimensional photonic crystal with Fibonacci sequence superconductor-semiconductor. <i>Optik</i> , 2020, 217, 164803.	2.9	25
25	Research on low-temperature blood tissues detection biosensor based on one-dimensional superconducting photonic crystal. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 89, 105299.	3.3	15
26	Research on Transmission Characteristics of Two-Dimensional Superconducting Photonic Crystal in THz-Waves. <i>Plasmonics</i> , 2020, 15, 1083-1089.	3.4	2
27	Superconducting one-dimensional photonic crystal with coupled semiconductor defects. <i>Optik</i> , 2020, 209, 164572.	2.9	5
28	Fano resonances in a superconducting one-dimensional photonic crystal containing a semiconducting layer. <i>Optik</i> , 2020, 209, 164545.	2.9	0
29	Tunable polychromatic filters based on semiconductor-superconductor-dielectric periodic and quasi-periodic hybrid photonic crystal. <i>Optical Materials</i> , 2021, 111, 110690.	3.6	15
30	Transmittance in a dispersive quasiperiodic photonic crystal. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150061.	2.0	1
31	The resistivity of high-T _c cuprates. <i>Superconductor Science and Technology</i> , 2021, 34, 035004.	3.5	7
32	Calcium-free double-layered cuprate superconductors with critical temperature above 100 K. <i>Communications Materials</i> , 2021, 2, .	6.9	5
33	Layered Cuprates Containing Flat Fragments: High-Pressure Synthesis, Crystal Structures and Superconducting Properties. <i>Molecules</i> , 2021, 26, 1862.	3.8	4
34	Room temperature superconductivity dome at a Fano resonance in superlattices of wires. <i>Europhysics Letters</i> , 2021, 134, 17001.	2.0	11
35	Enhancement of maximum superconducting temperature by applying pressure and reducing the charge transfer gap. <i>Chinese Journal of Physics</i> , 2021, 70, 44-54.	3.9	1
36	Theoretical Study of Tunable Optical Resonators in Periodic and Quasiperiodic One-Dimensional Photonic Structures Incorporating a Nematic Liquid Crystal. <i>Photonics</i> , 2021, 8, 150.	2.0	15

#	ARTICLE	IF	CITATIONS
37	Exploration of Hg-based cuprate superconductors by Raman spectroscopy under hydrostatic pressure. <i>Physical Review B</i> , 2021, 103, .	3.2	3
38	Transmittance spectrum in a Rudin Shapiro quasiperiodic one-dimensional photonic crystal with superconducting layers. <i>Physica C: Superconductivity and Its Applications</i> , 2021, 587, 1353898.	1.2	7
39	Ultrafast optical stress on BaFe ₂ As ₂ . <i>Physical Review Research</i> , 2021, 3, .	3.6	3
40	Effect of hydrostatic compression on physical properties of Li ₂ TmSi ₃ (Tm = Ir, Pt, Rh, Os) with ground-state optical features. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 156, 110124.	4.0	5
41	Dodecanacci superconductorâ€™ semiconductor dispersive photonic quasicrystal one dimensional. <i>Optik</i> , 2021, 242, 167354.	2.9	3
42	Materials Informatics Reveals Unexplored Structure Space in Cuprate Superconductors. <i>Advanced Functional Materials</i> , 0, , 2104696.	14.9	3
43	Behavior of the cutoff frequency in a one-dimensional photonic quasicrystal with an Octonacci sequence. <i>Optik</i> , 2021, 243, 167463.	2.9	2
44	Electrical transport measurements for superconducting sulfur hydrides using boron-doped diamond electrodes on beveled diamond anvil. <i>Superconductor Science and Technology</i> , 2020, 33, 124005.	3.5	7
45	Pressure dependent elastic, electronic, superconducting, and optical properties of ternary barium phosphides (Ba ₂ M ₂ P ₂ ; M = Ni, Rh): DFT based insights. <i>Physica Scripta</i> , 2020, 95, 105809.	2.5	27
46	Metamaterial Control of Hybrid Multifunctional High-Tc Superconducting Photonic Crystals for 1D Quasi-periodic Structure Potential Applications. <i>Materials Research</i> , 2020, 23, .	1.3	25
47	Uniaxial Compression Effects on Cuprate Superconductors. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2019, 29, 262-271.	0.0	0
48	Coupled first-order transitions and unconventional superfluidity in a Fermi-Bose mixture. <i>Physical Review Research</i> , 2020, 2, .	3.6	0
49	Resonant multi-gap superconductivity at room temperature near a Lifshitz topological transition in sulfur hydrides. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	10
50	Niyobyum �lavesinin (Bi, Pb)-2223 Bulk S�periletken Sistemine Etkisi �zerine Bir Ara�tırma. G�m �hane �niversitesi Fen Bilimleri Enstit�s� Dergisi, 0, , .	0.0	0
51	Extremely Overdoped Superconducting Cuprates via High Pressure Oxygenation Methods. <i>Condensed Matter</i> , 2021, 6, 50.	1.8	6
52	Numerical optimization of 1D superconductor photonic crystals pressure sensor for low temperatures applications. <i>Solid State Communications</i> , 2022, 343, 114671.	1.9	24
53	Negative Chemical Pressure Effect on the Superconductivity and Charge Density Wave of Cu _{0.5} Ir�xZr�xTe ₂ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 3705-3712.	3.1	4
54	Hot Hydride Superconductivity Above 550�K. <i>Frontiers in Electronic Materials</i> , 2022, 2, .	3.1	20

#	ARTICLE	IF	CITATIONS
55	Progress and prospects for cuprate high temperature superconductors under pressure. High Pressure Research, 2022, 42, 137-199.	1.2	6
56	Effect of Hydrostatic Pressure and Temperature on the Performance of a One-Dimensional Photonic Crystal-Based Biosensor. International Journal of Optics and Photonics, 2021, 15, 179-186.	0.3	0
57	Superconductivity and the Cuprates. Springer Theses, 2022, , 11-27. On the uniaxial strain (pressure) derivatives of the critical temperature of superconductivity of	0.1	0
58	$\frac{\partial T_c}{\partial \epsilon} = \frac{\partial T_c}{\partial \epsilon} \frac{\partial \epsilon}{\partial P} = \frac{\partial T_c}{\partial P}$		
59	Temperature Sensing Based on Defect Mode of One-Dimensional Superconductor-Semiconductor Photonic Crystals. Crystals, 2023, 13, 302.	2.2	5
60	Pressure Sensing of Symmetric Defect Photonic Crystals Composed of Superconductor and Semiconductor in Low-Temperature Environment. Crystals, 2023, 13, 471.	2.2	0
61	Temperature Dependence of Optical Bistability in Superconductor-Semiconductor Photonic Crystals Embedded with Graphene. Crystals, 2023, 13, 545.	2.2	0
62	Oxygen on-site Coulomb energy in $Pr_{1-x}Ce_xO_{3-y}$ and $Pr_{1-x}Ce_xO_{3-y}$. Physical Review B, 2023, 107, .	3.2	0
63	Structure and equation of state of $Bi_{2-x}Sb_xO_{4-y}$. Physical Review Materials, 2023, 7, .		
64	High-Pressure Synthesis and In-Situ Physical Property Measurement Using Boron-Doped Diamond. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Cijutsu, 2022, 32, 129-137.	0.0	0
65	Unveiling phase diagram of the lightly doped high-Tc cuprate superconductors with disorder removed. Nature Communications, 2023, 14, .	12.8	2
66	Scientia Sinica: Physica, Mechanica Et Astronomica, 2023, .		
67	Quantifying the Nonadiabaticity Strength Constant in Recently Discovered Highly Compressed Superconductors. Symmetry, 2023, 15, 1632.	2.2	0
68	Tunable bandstop filtering specialities in superconducting Morse photonic multilayers. Optics Communications, 2023, 546, 129825.	2.1	1
69	Tunable sensitivity of a waterborne bacteria detector based on a ternary photonic crystal with high-critical-temperature superconductor and semiconductor layers. Microsystem Technologies, 0, .	2.0	0
71	Comparative investigation of low and high pelletize pressure for (Ag) _x /CuTi-1223 nanoparticles-superconductor composites. Physica Scripta, 2023, 98, 125967.	2.5	0
72	Multiband Quantum Materials. Progress in Physics of Metals, 2023, 24, .	1.5	0