Catherine Bougerol

List of Publications by Year
in descending order

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288 papers	8,837 citations	41344 49 h-index	56724 83 g-index
293 all docs	293 docs citations	293 times ranked	5658 citing authors

#	Article	IF	Citations
1	Structure of the 100 K Superconductor Ba ₂ YCu ₃ O ₇ between (5) Tj ETQq1 1 0.784314 rgB	2.0	558
2	Structure determination of the new high-temperature superconductor Y2Ba4Cu7O14+x. Nature, 1988, 334, 596-598.	27.8	290
3	The synthesis and characterization of the HgBa2Ca2Cu3O8+Î´ and HgBa2Ca3Cu4O10+Î´ phases. Physica C: Superconductivity and Its Applications, 1993, 215, 1-10.	1.2	246
4	The crystal structure of superconducting La2CuO4.032 by neutron diffraction. Physica C: Superconductivity and Its Applications, 1989, 158, 183-191.	1.2	214
5	M-Plane Coreâ€“Shell InGaN/GaN Multiple-Quantum-Wells on GaN Wires for Electroluminescent Devices. Nano Letters, 2011, 11, 4839-4845.	9.1	186
6	Flexible Light-Emitting Diodes Based on Vertical Nitride Nanowires. Nano Letters, 2015, 15, 6958-6964.	9.1	172
7	Structural Aspects of the Crystallographic-Magnetic Transition in LaVO3 around 140 K. Journal of Solid State Chemistry, 1993, 106, 253-270.	2.9	171
8	A note on the symmetry and Bi valence of the superconductor Bi2Sr2Ca1Cu2O8. Physica C: Superconductivity and Its Applications, 1988, 156, 189-192.	1.2	156
9	Variations of stoichiometry and cell symmetry in YBa2Cu3O7â^'x with temperature and oxygen pressure. Nature, 1987, 327, 306-308.	27.8	146
10	Oxygen vacancy ordering in Ba2YCu3O7â^'x around x= 0.5. Solid State Communications, 1988, 65, 283-286.	1.9	136
11	Two-phase structural refinement of La2CuO4.032 at 15 K. Physica C: Superconductivity and Its Applications, 1990, 170, 87-94.	1.2	130
12	Subnanosecond spectral diffusion measurement using photon correlation. Nature Photonics, 2010, 4, 696-699.	31.4	123
13	Bismuth valence order-disorder study in BaBiO3 by powder neutron diffraction. Solid State Communications, 1988, 65, 1363-1369.	1.9	122
14	Oxygen-vacancy ordering in theBa2YCu3O7â^'x(0â‰¤xâ‰¤1) superconducting system. Physical Review B, 1987, 36, 7118-7120.	3.2	116
15	Near infrared quantum cascade detector in GaNâ•AlGaNâ•AlN heterostructures. Applied Physics Letters, 2008, 92, .	3.3	116
16	Structures of superconducting Ba2YCu3O7-Ï– and semiconducting Ba2YCu3O6 between 25Â°C and 750Â°C. Solid State Communications, 1987, 64, 301-307.	1.9	109
17	Discovery of a second family of bismuth-oxide-based superconductors. Nature, 1997, 390, 148-150.	27.8	105
18	A High-Temperature Single-Photon Source from Nanowire Quantum Dots. Nano Letters, 2008, 8, 4326-4329.	9.1	104

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19	Powder X-ray and neutron diffraction study of the superconductor Bi2Sr2CaCu2O8. Physica C: Superconductivity and Its Applications, 1988, 153-155, 623-624.	1.2	102
20	Exciton and Biexciton Luminescence from Single GaN/AlN Quantum Dots in Nanowires. Nano Letters, 2008, 8, 2092-2096.	9.1	97
21	Structural and optical properties of InGaN/GaN nanowire heterostructures grown by PA-MBE. Nanotechnology, 2011, 22, 075601.	2.6	97
22	Magnetic and electric properties ofLa1â^'ÎMnO3. Physical Review B, 1999, 59, 1304-1310.	3.2	96
23	Polarity of GaN nanowires grown by plasma-assisted molecular beam epitaxy on Si(111). Physical Review B, 2011, 84, .	3.2	95
24	Evidence for quantum-confined Stark effect in GaN/AlN quantum dots in nanowires. Physical Review B, 2009, 80, .	3.2	94
25	Crystal structure of Y0.9Ba2.1Cu3O6, a compound related to the high-Tc superconductor YBa2Cu3O7. Nature, 1987, 327, 687-689.	27.8	92
26	A new HTSC family: the copper analogs of the single-layer Hg or Tl copper oxide superconductors. Physica C: Superconductivity and Its Applications, 1994, 222, 52-56.	1.2	92
27	Flexible White Light Emitting Diodes Based on Nitride Nanowires and Nanophosphors. ACS Photonics, 2016, 3, 597-603.	6.6	89
28	Synthesis and neutron powder diffraction study of the superconductor HgBa2CaCu2O6+Î´ before and after heat treatment. Physica C: Superconductivity and Its Applications, 1993, 218, 348-355.	1.2	87
29	GaN/AlGaN intersubband optoelectronic devices. New Journal of Physics, 2009, 11, 125023.	2.9	84
30	Nucleation mechanism of GaN nanowires grown on (111) Si by molecular beam epitaxy. Nanotechnology, 2009, 20, 415602.	2.6	83
31	Superstructure of the superconductor Bi2Sr2CaCu2O8 by high-resolution electron microscopy. Nature, 1988, 333, 53-54.	27.8	77
32	Neutron powder diffraction study of the crystal structure of HgBa2Ca4Cu5O12+Î´ at room temperature and at 10 K. Physica C: Superconductivity and Its Applications, 1994, 227, 1-9.	1.2	77
33	The structural properties of GaN/AlN coreâ€“shell nanocolumn heterostructures. Nanotechnology, 2010, 21, 415702.	2.6	73
34	Oxygen vacancy ordering and non stoichiometry in the Ba 2 YCu 3 O 7â^'x superconductors. Materials Research Bulletin, 1987, 22, 1685-1693.	5.2	72
35	Quantum Transport in GaN/AlN Double-Barrier Heterostructure Nanowires. Nano Letters, 2010, 10, 3545-3550.	9.1	71
36	Ultrafast Room Temperature Single-Photon Source from Nanowire-Quantum Dots. Nano Letters, 2012, 12, 2977-2981.	9.1	70

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37	Growth mechanism and properties of InGaN insertions in GaN nanowires. Nanotechnology, 2012, 23, 135703.	2.6	67
38	A family of non-stoichiometric phases based on Ba2YCu3O7â^Î´ (0â‰Îˆâ‰1). Physica C: Superconductivity and Its Applications, 1988, 156, 455-460.	1.2	67
39	Structural and electronic effects of Sr substitution for Ba inY(Ba1â^'xSrx)2Cu3Owat varyingw. Physical Review B, 1998, 58, 15208-15217.	3.2	66
40	Flexible Photodiodes Based on Nitride Core/Shell pâ€“n Junction Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 26198-26206.	8.0	66
41	Growth, structural and optical properties of AlGaN nanowires in the whole composition range. Nanotechnology, 2013, 24, 115704.	2.6	65
42	Two new bulk superconducting phases in the Y-Ba-Cu-O system: YBa2Cu3.5O7 + x (Tc â‰^ 40 K) and YBa2Cu4O8 + x (Tc â‰^ 80 K). Journal of the Less Common Metals, 1989, 150, 129-137.	0.8	64
43	Effect of the quantum well thickness on the performance of InGaN photovoltaic cells. Applied Physics Letters, 2014, 105, .	3.3	60
44	The determination of the Bi valence state in BaBiO3 by neutron powder diffraction data. Solid State Communications, 1985, 56, 829-831.	1.9	58
45	Ultralong and Defect-Free GaN Nanowires Grown by the HVPE Process. Nano Letters, 2014, 14, 559-562.	9.1	58
46	Strain relaxation in short-period polar GaN/AlN superlattices. Journal of Applied Physics, 2009, 106, 013526.	2.5	56
47	The influence of AlN buffer over the polarity and the nucleation of self-organized GaN nanowires. Journal of Applied Physics, 2015, 117, .	2.5	55
48	High-speed operation of GaN/AlGaN quantum cascade detectors at Î»â‰^1.55â€‚Î¼m. Applied Physics Letters, 2008, 93, .	3.3	52
49	Oxygen vacancy ordering in the BaBiO3â^'y system. Solid State Communications, 1985, 56, 833-835.	1.9	51
50	Oxygen vacancy ordering, twinning and Cu substitution in YBa2Cu3O6+x. Physica C: Superconductivity and Its Applications, 1988, 153-155, 582-585.	1.2	49
51	Molecular beam epitaxy growth and optical properties of AlN nanowires. Applied Physics Letters, 2010, 96, .	3.3	49
52	Nucleation of GaN nanowires grown by plasma-assisted molecular beam epitaxy: The effect of temperature. Journal of Crystal Growth, 2011, 334, 177-180.	1.5	48
53	Exciton dynamics of a single quantum dot embedded in a nanowire. Physical Review B, 2009, 80, .	3.2	47
54	Elastic strain relaxation in GaN/AlN nanowire superlattice. Physical Review B, 2010, 81, .	3.2	47

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55	In situ study of self-assembled GaN nanowires nucleation on Si(111) by plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2012, 100, .	3.3	47
56	Superstructure of the superconductor Bi2Sr2CaCu2O8 by high resolution electron microscopy. Physica C: Superconductivity and Its Applications, 1988, 153-155, 619-620.	1.2	46
57	Twinning in Ba2YCu3O6+x single crystals. Solid State Communications, 1987, 64, 1349-1352.	1.9	44
58	Midinfrared intersubband absorption in GaN/AlGaN superlattices on Si(111) templates. Applied Physics Letters, 2009, 95, .	3.3	44
59	Subnanosecond spectral diffusion of a single quantum dot in a nanowire. Physical Review B, 2011, 84, .	3.2	44
60	The superconducting â€œcopper/carbonate cupratesâ€•An electron microscopy study. Physica C: Superconductivity and Its Applications, 1994, 231, 103-108.	1.2	43
61	Inserting one single Mn ion into a quantum dot. Applied Physics Letters, 2006, 89, 193109.	3.3	43
62	Structure of heavy-metal sorbed birnessite: Part 2. Results from electron diffraction. American Mineralogist, 2002, 87, 1646-1661.	1.9	42
63	M-Plane GaN/InAlN Multiple Quantum Wells in Coreâ€“Shell Wire Structure for UV Emission. ACS Photonics, 2014, 1, 38-46.	6.6	42
64	Enhancement of Tc of CyCu1â^'yBa2Ca2Cu3Ox from 67 K to 120 K by reduction treatments. Physica C: Superconductivity and Its Applications, 1996, 266, 215-222.	1.2	40
65	The Fine Structure of YCuO2+x Delafossite Determined by Synchrotron Powder Diffraction and Electron Microscopy. Journal of Solid State Chemistry, 2001, 156, 428-436.	2.9	39
66	PbMnO2.75â€”a high-pressure phase having a new type of crystallographic shear structure derived from perovskite. Journal of Solid State Chemistry, 2002, 169, 131-138.	2.9	39
67	Investigation of Photovoltaic Properties of Single Coreâ€“Shell GaN/InGaN Wires. ACS Applied Materials & Interfaces, 2015, 7, 21898-21906.	8.0	39
68	Synthesis and crystal structure of BaSrCuO2+xÂ·CO3. Physica C: Superconductivity and Its Applications, 1992, 195, 335-344.	1.2	38
69	High-pressure synthesis and heat treatments of the HgBa2Ca4Cu5O12+Î´ and HgBa2Ca5Cu6O14+Î´ phases. Physica C: Superconductivity and Its Applications, 1996, 256, 1-7.	1.2	38
70	Catalyst-free growth of high-optical quality GaN nanowires by metal-organic vapor phase epitaxy. Applied Physics Letters, 2011, 99, .	3.3	38
71	Electron microscopy of superconducting Pb2Sr2Y1â^'xCaxCu3O8. Physica C: Superconductivity and Its Applications, 1989, 157, 509-514.	1.2	37
72	High pressure synthesis and structural study of R2CuO4 compounds with R = Y, Tb, Dy, Ho, Er, Tm. Physica C: Superconductivity and Its Applications, 1992, 193, 178-188.	1.2	37

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73	Atomic structure and defect structure of the superconducting HgBa2Canâ^'1CunO2n+2+Î´ homologous series. Physica C: Superconductivity and Its Applications, 1994, 223, 219-226.	1.2	37
74	Fe and Co Nanowires and Nanotubes Synthesized by Template Electrodeposition. Journal of the Electrochemical Society, 2003, 150, E468.	2.9	37
75	Anisotropic morphology of nonpolar a-plane GaN quantum dots and quantum wells. Journal of Applied Physics, 2007, 102, 074304.	2.5	37
76	Pb3Sr3Cu3O8+Î´Cl: A new layered copper oxychloride. Physica C: Superconductivity and Its Applications, 1990, 167, 67-74.	1.2	36
77	Carrier Density Dependence of Magnetoresistance inTl2Mn2â^'xRuxO7Pyrochlores. Physical Review Letters, 1999, 83, 2022-2025.	7.8	36
78	Defect-free ZnSe nanowire and nanoneedle nanostructures. Applied Physics Letters, 2008, 93, 143106.	3.3	34
79	Structural and optical properties of Al_x Ga_{1â€“x}N nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 868-873.	2.4	32
80	Catalyst-assisted hydride vapor phase epitaxy of GaN nanowires: exceptional length and constant rod-like shape capability. Nanotechnology, 2012, 23, 405601.	2.6	30
81	Suppression of superconductivity in Hg-1223 and Hg-1234 by partial replacement of Hg by carbon. Physica C: Superconductivity and Its Applications, 1995, 243, 222-232.	1.2	28
82	Metal organic vapour-phase epitaxy growth of GaN wires on Si (111) for light-emitting diode applications. Nanoscale Research Letters, 2013, 8, 61.	5.7	28
83	Intrinsic limits governing MBE growth of Ga-assisted GaAs nanowires on Si(111). Journal of Crystal Growth, 2013, 364, 118-122.	1.5	28
84	High Lateral Breakdown Voltage in Thin Channel AlGaN/GaN High Electron Mobility Transistors on AlN/Sapphire Templates. Micromachines, 2019, 10, 690.	2.9	28
85	The structure of superconducting Pb2Sr2Y0.73Ca0.27Cu3O8 by single-crystal neutron diffraction. Physica C: Superconductivity and Its Applications, 1991, 175, 293-300.	1.2	27
86	Zero resistance around 250 K in superconducting Hg-compounds?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 184, 215-217.	2.1	27
87	Elastic and surface energies: Two key parameters for CdSe quantum dot formation. Applied Physics Letters, 2006, 88, 233103.	3.3	27
88	Towards vertical coupling of CdTe/ZnTe quantum dots formed by a high temperature tellurium induced process. Journal of Crystal Growth, 2011, 335, 28-30.	1.5	27
89	Terahertz absorbing AlGaN/GaN multi-quantum-wells: Demonstration of a robust 4-layer design. Applied Physics Letters, 2013, 103, 091108.	3.3	27
90	Electron beam induced superstructure in Ba1â^'xKxBiO3â^'y. Physica C: Superconductivity and Its Applications, 1989, 157, 228-236.	1.2	26

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91	Nonpolarm-plane GaN/AlGaN heterostructures with intersubband transitions in the 5â€“10 THz band. Nanotechnology, 2015, 26, 435201.	2.6	26
92	Intersubband transitions in nonpolar GaN/Al(Ga)N heterostructures in the short- and mid-wavelength infrared regions. Journal of Applied Physics, 2015, 118, 014309.	2.5	26
93	Green Electroluminescence from Radial m-Plane InGaN Quantum Wells Grown on GaN Wire Sidewalls by Metalâ€“Organic Vapor Phase Epitaxy. ACS Photonics, 2018, 5, 4330-4337.	6.6	26
94	Si Doping of Vaporâ€“Liquidâ€“Solid GaAs Nanowires: n-Type or p-Type?. Nano Letters, 2019, 19, 4498-4504.	9.1	26
95	Electron microscopy study of the new high Tc phase Y2Ba4Cu7O14+x. Solid State Communications, 1989, 70, 275-278.	1.9	25
96	Electrochemical synthesis and characterization of superconducting Ba1â^'xKxBiO3 single crystals. Solid State Communications, 1991, 78, 967-969.	1.9	25
97	The superconducting HgBa2Can-1CunO2n+2+Î´ homologous series. Physica B: Condensed Matter, 1994, 197, 570-578.	2.7	25
98	Structure of LaCuO2.66: an oxidized delafossite compound containing hole-doped kagome planes of Cu2+ cations. Solid State Sciences, 2003, 5, 1095-1104.	3.2	25
99	Pseudo-square AlGaN/GaN quantum wells for terahertz absorption. Applied Physics Letters, 2014, 105, 131106.	3.3	25
100	Synthesis, structure, and resistivity properties of K1 â^' xBaxNbO3 (0.2 â‰¤ x â‰¤ 0.5) and K0.5Sr0.5NbO3. Materials Research Bulletin, 1995, 30, 1379-1386.	5.2	24
101	Anisotropic strain relaxation in a-plane GaN quantum dots. Journal of Applied Physics, 2007, 101, 063541.	2.5	24
102	Probing alloy composition gradient and nanometer-scale carrier localization in single AlGaN nanowires by nanocathodoluminescence. Nanotechnology, 2013, 24, 305703.	2.6	24
103	Dependence of the photovoltaic performance of pseudomorphic InGaN/GaN multiple-quantum-well solar cells on the active region thickness. Applied Physics Letters, 2016, 108, .	3.3	24
104	Mercury-based copper mixed-oxide superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 21-24.	1.2	23
105	Photovoltaic Response of InGaN/GaN Multiple-Quantum Well Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 08JH05.	1.5	22
106	Circumventing the miscibility gap in InGaN nanowires emitting from blue to red. Nanotechnology, 2018, 29, 465602.	2.6	22
107	Gold substitution in mercury cuprate superconductors. Physica C: Superconductivity and Its Applications, 1996, 262, 151-158.	1.2	21
108	Unit-cell intergrowth of pyrochlore and hexagonal tungsten bronze structures in secondary tungsten minerals. Journal of Solid State Chemistry, 2006, 179, 3860-3869.	2.9	21

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109	Optimization of superconductivity in the high-pressure Sr-Ca-Cu-O system. Physica C: Superconductivity and Its Applications, 1994, 228, 63-72.	1.2	20
110	High pressure synthesis and properties of the HgBa2Can-1CunO2n+2+Î´ (n=1â^'6) superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 146-149.	1.2	20
111	Synthesis and structure investigation of the Pb3V(PO4)3 eulytite. Journal of Solid State Chemistry, 2005, 178, 3715-3721.	2.9	20
112	The structural properties of GaN insertions in GaN/AlN nanocolumn heterostructures. Nanotechnology, 2009, 20, 295706.	2.6	20
113	Optical properties of single ZnTe nanowires grown at low temperature. Applied Physics Letters, 2013, 103, .	3.3	20
114	AuBa2(Y1â^'x, Cax)Cu2O7: a new superconducting gold cuprate with Tc above 80 K. Physica C: Superconductivity and Its Applications, 1997, 276, 237-244.	1.2	19
115	Optical spectroscopy of cubic GaN in nanowires. Applied Physics Letters, 2010, 97, .	3.3	19
116	Ordering of Pd²⁺ and Pd⁴⁺ in the Mixed-Valent Palladate KPd₂O₃. Inorganic Chemistry, 2010, 49, 1295-1297.	4.0	19
117	Cu2ZnSn(S1â^'xSex)4 thin films for photovoltaic applications: Influence of the precursor stacking order on the selenization process. Journal of Alloys and Compounds, 2014, 588, 310-315.	5.5	19
118	InGaN nanowires with high InN molar fraction: growth, structural and optical properties. Nanotechnology, 2016, 27, 195704.	2.6	19
119	Dopant radial inhomogeneity in Mg-doped GaN nanowires. Nanotechnology, 2018, 29, 255706.	2.6	19
120	Oxygen stoichiometry and superconductivity in YBa 2 Cu 3 O 6+x and Pb 2 Sr 2 Y 1â^'x Ca x O 8+Î´. Physica C: Superconductivity and Its Applications, 1989, 162-164, 281-284.	1.2	18
121	Growth of m-plane GaN quantum wires and quantum dots on m-plane 6H-SiC. Journal of Applied Physics, 2007, 102, 074913.	2.5	18
122	Optical properties of m-plane GaN quantum dots and quantum wires. Journal of Applied Physics, 2008, 104, .	2.5	18
123	Improved conversion efficiency of as-grown InGaN/GaN quantum-well solar cells for hybrid integration. Applied Physics Express, 2014, 7, 032301.	2.4	18
124	Role of Underlayer for Efficient Coreâ€“Shell InGaN QWs Grown on m-plane GaN Wire Sidewalls. ACS Applied Materials & Interfaces, 2020, 12, 19092-19101.	8.0	18
125	Structural aspects of the phase separation in La 2 CuO 4.032. Physica C: Superconductivity and Its Applications, 1989, 162-164, 57-58.	1.2	17
126	Crystal structure of the double-hg-layer copper oxide superconductor (Hg, Pr)2Ba2(Y, Ca)Cu2O8â^'Î´ as a function of doping. Journal of Physics and Chemistry of Solids, 1995, 56, 1471-1478.	4.0	17

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127	Measuring local lattice polarity in AlN and GaN by high resolution Z-contrast imaging: The case of (0001) and (11Â¯00) GaN quantum dots. Applied Physics Letters, 2008, 92, .	3.3	17
128	Composition Analysis of III-Nitrides at the Nanometer Scale: Comparison of Energy Dispersive X-ray Spectroscopy and Atom Probe Tomography. Nanoscale Research Letters, 2016, 11, 461.	5.7	17
129	Effect of doping on the far-infrared intersubband transitions in nonpolarm-plane GaN/AlGaN heterostructures. Nanotechnology, 2016, 27, 145201.	2.6	16
130	UV Emission from GaN Wires with m-Plane Coreâ€“Shell GaN/AlGaN Multiple Quantum Wells. ACS Applied Materials & Interfaces, 2020, 12, 44007-44016.	8.0	16
131	High pressure synthesis and structural study of R2CUO4 compounds with R=Y,TB,DY,HO,ER,TM. Physica C: Superconductivity and Its Applications, 1991, 185-189, 539-540.	1.2	15
132	Evolution of structure and superconductivity with lithium content in Li1âˆ’xTi2O4. Journal of Alloys and Compounds, 1993, 195, 81-84.	5.5	15
133	Pressure effects in high temperature superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2093-2094.	1.2	15
134	Synthesis, neutron diffraction study and cation substitutions in Srnâˆ’1Cun+1O2n (n = 3, 5). Physica C: Superconductivity and Its Applications, 1997, 276, 139-146.	1.2	15
135	50 K enhancement of Tc by pressure in the Hg-2212 superconductor. Solid State Communications, 1997, 102, 1-5.	1.9	15
136	OverdopedHg1âˆ’xAuxBa2Ca2Cu3O8+xand the origin of the intrinsic increase ofTcunder pressure in mercury cuprates. Physical Review B, 1998, 57, R5630-R5633.	3.2	15
137	Self-assembly of CdSeâˆ•ZnSe(001) quantum dot structures mediated by a tellurium cap layer. Applied Physics Letters, 2007, 91, 153110.	3.3	15
138	Nordgauite, MnAl₂(PO₄)₂(F,OH)₂Â·5H₂O, a new mineral from the Hagendorf-SÃ¼d pegmatite, Bavaria, Germany: description and crystal structure. Mineralogical Magazine, 2011, 75, 269-278.	1.4	15
139	Atomic arrangement at ZnTe/CdSe interfaces determined by high resolution scanning transmission electron microscopy and atom probe tomography. Applied Physics Letters, 2015, 106, 051904.	3.3	15
140	Influence of Silicon on the Nucleation Rate of GaAs Nanowires on Silicon Substrates. Journal of Physical Chemistry C, 2018, 122, 19230-19235.	3.1	15
141	Three-dimensional measurement of Mg dopant distribution and electrical activity in GaN by correlative atom probe tomography and off-axis electron holography. Journal of Applied Physics, 2020, 127, 065702.	2.5	15
142	Structural changes and oxygen stoichiometry in Pb 2 Sr 2 Y 1âˆ’x Ca x Cu 3 O 8+Îˊ. Physica C: Superconductivity and Its Applications, 1989, 162-164, 53-54.	1.2	14
143	Evidence by x-ray diffraction for two apical oxygen sites in a copper-deficientYBa2Cu2.78O7crystal. Physical Review B, 1993, 47, 3465-3468.	3.2	14
144	Strain assisted inter-diffusion in GaN/AlN quantum dots. Journal of Applied Physics, 2013, 113, 034311.	2.5	14

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145	Selective growth of ordered hexagonal InN nanorods. CrystEngComm, 2019, 21, 2702-2708.	2.6	13
146	The influence of pressure on the superconducting properties of the (CuxC1â˜'x)Ba2Canâ˜'1CunOy family of HTSC materials. Solid State Communications, 1996, 97, 131-135.	1.9	12
147	High-pressure synchrotron-diffraction study of the superconducting spin-ladder compounds(Sr,M)14Cu24O41(M=Ca,Ba, Nd). Physical Review B, 1999, 59, 12048-12053.	3.2	12
148	Epitaxial growth of ZnSe and ZnSe/CdSe nanowires on ZnSe. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1526-1529.	0.8	12
149	Characterization of spin-state tuning in thermally annealed semiconductor quantum dots. Physical Review B, 2010, 82, .	3.2	12
150	Self-catalyzed GaAs nanowires on silicon by hydride vapor phase epitaxy. Nanotechnology, 2017, 28, 125602.	2.6	12
151	Compositional control of homogeneous InGaN nanowires with the In content up to 90%. Nanotechnology, 2019, 30, 044001.	2.6	12
152	Correlative investigation of Mg doping in GaN layers grown at different temperatures by atom probe tomography and off-axis electron holography. Nanotechnology, 2020, 31, 045702.	2.6	12
153	Synthesis of alkali-substituted Sr,Cu oxycarbonates superconductivity in Sr2â˜'xKxCuO2CO3 (0.25 â©½ x â©½) Tj ETQq1 1 0.7843	1.2	11
154	New germanates RCrGeO5 (R=Ndâ€“Er, Y): Synthesis, structure, and properties. Journal of Solid State Chemistry, 2008, 181, 2433-2441.	2.9	11
155	Negative magnetopolarization in thermally annealed self-assembled quantum dots. Physical Review B, 2008, 77, .	3.2	11
156	Paramagnetic shift in thermally annealed CdxZn1â˜'xSe quantum dots. New Journal of Physics, 2012, 14, 043038.	2.9	11
157	Overdoped cuprates with high-temperature superconducting transitions. APL Materials, 2013, 1, .	5.1	11
158	THz intersubband transitions in AlGaN/GaN multiâ€quantumâ€wells. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 761-764.	1.8	11
159	High-quality NbN nanofilms on a GaN/AlN heterostructure. AIP Advances, 2014, 4, 107123.	1.3	11
160	Synthesis, crystal structure and properties of Hg2Ba2(Y, Ca) Cu2O8â˜'Î´: the first cuprate superconductor containing a double mercury-oxygen layer. Physica C: Superconductivity and Its Applications, 1994, 235-240, 925-926.	1.2	10
161	Structure determination of oxide compounds by electron crystallography. Micron, 2001, 32, 473-479.	2.2	10
162	Insertion of CdSe quantum dots in ZnSe nanowires: Correlation of structural and chemical characterization with photoluminescence. Journal of Applied Physics, 2011, 110, .	2.5	10

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163	Interfacial chemistry in a ZnTe/CdSe superlattice studied by atom probe tomography and transmission electron microscopy strain measurements. Journal of Microscopy, 2016, 262, 178-182.	1.8	10
164	Design and implementation of bound-to-quasibound GaN/AlGaN photovoltaic quantum well infrared photodetectors operating in the short wavelength infrared range at room temperature. Journal of Applied Physics, 2019, 125, 174505.	2.5	10
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