Thomas Pichler

List of Publications by Year
in descending order

370 papers	14,091 citations	16451 64 h-index	29157 104 g-index
382 all docs	382 docs citations	382 times ranked	12924 citing authors

#	Article	IF	Citations
1	The doping of carbon nanotubes with nitrogen and their potential applications. Carbon, 2010, 48, 575-586.	10.3	513
2	Localized and Delocalized Electronic States in Single-Wall Carbon Nanotubes. Physical Review Letters, 1998, 80, 4729-4732.	7.8	395
3	Resonance Raman and infrared spectroscopy of carbon nanotubes. Chemical Physics Letters, 1994, 221, 53-58.	2.6	346
4	Confined linear carbon chains as a route to bulkÂcarbyne. Nature Materials, 2016, 15, 634-639.	27.5	341
5	Subnanometer Motion of Cargoes Driven by Thermal Gradients Along Carbon Nanotubes. Science, 2008, 320, 775-778.	12.6	322
6	X-ray photoelectron spectroscopy of graphitic carbon nanomaterials doped with heteroatoms. Beilstein Journal of Nanotechnology, 2015, 6, 177-192.	2.8	319
7	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. Nano Letters, 2010, 10, 3360-3366.	9.1	297
8	Determination of SWCNT diameters from the Raman response of the radial breathing mode. European Physical Journal B, 2001, 22, 307-320.	1.5	260
9	Functionalization of carbon nanotubes. Synthetic Metals, 2004, 141, 113-122.	3.9	250
10	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. Physical Review B, 2008, 78, .	3.2	243
11	The physical and chemical properties of heteronanotubes. Reviews of Modern Physics, 2010, 82, 1843-1885.	45.6	239
12	Linear Plasmon Dispersion in Single-Wall Carbon Nanotubes and the Collective Excitation Spectrum of Graphene. Physical Review Letters, 2008, 100, 196803.	7.8	211
13	Diameter grouping in bulk samples of single-walled carbon nanotubes from optical absorption spectroscopy. Applied Physics Letters, 1999, 75, 2217-2219.	3.3	194
14	A Catalytic Reaction Inside a Singleâ€Walled Carbon Nanotube. Advanced Materials, 2008, 20, 1443-1449.	21.0	178
15	Detailed analysis of the mean diameter and diameter distribution of single-wall carbon nanotubes from their optical response. Physical Review B, 2002, 66, .	3.2	167
16	Nanofibrous and Graphene-Templated Conjugated Microporous Polymer Materials for Flexible Chemosensors and Supercapacitors. Chemistry of Materials, 2015, 27, 7403-7411.	6.7	164
17	Unusual High Degree of Unperturbed Environment in the Interior of Single-Wall Carbon Nanotubes. Physical Review Letters, 2003, 90, 225501.	7.8	158
18	Equilibrium phases in K- and Rb-dopedC60fromin situinfrared reflectivity measurements. Physical Review B, 1994, 49, 15879-15889.	3.2	151

#	Article	IF	Citations
19	Metallic Polymers ofC60Inside Single-Walled Carbon Nanotubes. Physical Review Letters, 2001, 87, 267401.	7.8	140
20	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. Advanced Materials, 2015, 27, 6714-6721.	21.0	137
21	Transition from a Tomonaga-Luttinger Liquid to a Fermi Liquid in Potassium-Intercalated Bundles of Single-Wall Carbon Nanotubes. Physical Review Letters, 2004, 93, 096805.	7.8	131
22	Iron filled single-wall carbon nanotubes â€" A novel ferromagnetic medium. Chemical Physics Letters, 2006, 421, 129-133.	2.6	130
23	Low temperature fullerene encapsulation in single wall carbon nanotubes: synthesis of N@C60@SWCNT. Chemical Physics Letters, 2004, 383, 362-367.	2.6	122
24	On the Graphitization Nature of Oxides for the Formation of Carbon Nanostructures. Chemistry of Materials, 2007, 19, 4105-4107.	6.7	121
25	Novel Catalysts, Room Temperature, and the Importance of Oxygen for the Synthesis of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1209-1215.	9.1	120
26	Anisotropy and Interplane Interactions in the Dielectric Response of Graphite. Physical Review Letters, 2002, 89, 076402.	7.8	119
27	Formation and electronic properties ofBC3single-wall nanotubes upon boron substitution of carbon nanotubes. Physical Review B, 2004, 69, .	3.2	119
28	Tailoring N-Doped Single and Double Wall Carbon Nanotubes from a Nondiluted Carbon/Nitrogen Feedstock. Journal of Physical Chemistry C, 2007, 111, 2879-2884.	3.1	119
29	Filling factors, structural, and electronic properties ofC60molecules in single-wall carbon nanotubes. Physical Review B, 2002, 65, .	3.2	108
30	Electron-Electron Correlation in Graphite: A Combined Angle-Resolved Photoemission and First-Principles Study. Physical Review Letters, 2008, 100, 037601.	7.8	103
31	Hybrid Carbon Nanotube Networks as Efficient Hole Extraction Layers for Organic Photovoltaics. ACS Nano, 2013, 7, 556-565.	14.6	102
32	Manifestation of Charged and Strained Graphene Layers in the Raman Response of Graphite Intercalation Compounds. ACS Nano, 2013, 7, 9249-9259.	14.6	100
33	Electronic structure of multiwall boron nitride nanotubes. Physical Review B, 2003, 67, .	3.2	99
34	Thermal Decomposition of Ferrocene as a Method for Production of Single-Walled Carbon Nanotubes without Additional Carbon Sources. Journal of Physical Chemistry B, 2006, 110, 20973-20977.	2.6	96
35	Position and momentum mapping of vibrations in graphene nanostructures. Nature, 2019, 573, 247-250.	27.8	96
36	Efficient production of B-substituted single-wall carbon nanotubes. Chemical Physics Letters, 2003, 378, 516-520.	2.6	95

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37	Infrared spectroscopy of fullerenes. Journal of Physics Condensed Matter, 1995, 7, 6601-6624.	1.8	94
38	Reduced diameter distribution of single-wall carbon nanotubes by selective oxidation. Chemical Physics Letters, 2002, 363, 567-572.	2.6	93
39	Electronic and optical properties of alkali-metal-intercalated single-wall carbon nanotubes. Physical Review B, 2003, 67, .	3.2	93
40	Metalâ€"Organic Framework Co-MOF-74-Based Hostâ€"Guest Composites for Resistive Gas Sensing. ACS Applied Materials & Interfaces, 2019, 11, 14175-14181.	8.0	93
41	Oxide-Driven Carbon Nanotube Growth in Supported Catalyst CVD. Journal of the American Chemical Society, 2007, 129, 15772-15773.	13.7	91
42	Phase separation inKxC60(0â‰¤xâ‰¤6) as obtained fromin situRaman spectroscopy. Physical Review B, 1992, 45, 13841-13844.	3.2	90
43	Joys and Pitfalls of Fermi Surface Mapping inBi2Sr2CaCu2O8+Î´Using Angle Resolved Photoemission. Physical Review Letters, 2000, 84, 4453-4456.	7.8	88
44	Electron energy-loss spectroscopy studies of single wall carbon nanotubes. Carbon, 1999, 37, 733-738.	10.3	83
45	Phonon surface mapping of graphite: Disentangling quasi-degenerate phonon dispersions. Physical Review B, 2009, 80, .	3.2	83
46	Diameter selective doping of single wall carbon nanotubes. Physical Chemistry Chemical Physics, 2003, 5, 582-587.	2.8	82
47	Synthesis and electronic properties of B-doped single wall carbon nanotubes. Carbon, 2004, 42, 1123-1126.	10.3	81
48	Electronic structure and electron-phonon coupling of doped graphene layers in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>KC</mml:mtext></mml:mrow><mml:mn>8</mml:mn></mml:msu Physical Review B, 2009, 79, .	3.2	81
49	MonometallofullereneTm@C82: Proof of an Encapsulated Divalent Tm Ion by High-Energy Spectroscopy. Physical Review Letters, 1997, 79, 3026-3029.	7.8	80
50	On-Ball Doping of Fullerenes: The Electronic Structure ofC59N Dimers from Experiment and Theory. Physical Review Letters, 1997, 78, 4249-4252.	7.8	79
51	Fine tuning the charge transfer in carbon nanotubes via the interconversion of encapsulated molecules. Physical Review B, 2008, 77, .	3.2	79
52	Electronic structure of pristine and intercalatedSc3N@C80metallofullerene. Physical Review B, 2002, 66, .	3.2	78
53	Raman spectroscopy of graphite intercalation compounds: Charge transfer, strain, and electronâ€"phonon coupling in graphene layers. Physica Status Solidi (B): Basic Research, 2014, 251, 2337-2355.	1.5	75
54	Bulk synthesis of carbon-filled silicon carbide nanotubes with a narrow diameter distribution. Journal of Applied Physics, 2005, 97, 056102.	2.5	74

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55	Disentanglement of the electronic properties of metallicity-selected single-walled carbon nanotubes. Physical Review B, 2009, 80, .	3.2	73
56	Size of Electron-Hole Pairs inÏ€-Conjugated Systems. Physical Review Letters, 1999, 83, 1443-1446.	7.8	70
57	Electronic transitions in KxC60 (0 â©½ x â©½ 6) from in situ absorption spectroscopy. Solid State Communications, 1992, 81, 859-862.	1.9	69
58	The Electronic and Vibrational Structure of Endohedral Tm3N@C80 (I) Fullerene â˘ Proof of an Encaged Tm3+. Journal of Physical Chemistry A, 2005, 109, 7088-7093.	2.5	69
59	Angle-resolved photoemission study of the graphite intercalation compoundKC8: A key to graphene. Physical Review B, 2009, 80, .	3.2	69
60	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. Angewandte Chemie - International Edition, 2017, 56, 15267-15273.	13.8	69
61	A one step approach to B-doped single-walled carbon nanotubes. Journal of Materials Chemistry, 2008, 18, 5676.	6.7	68
62	Direct probe of linearly dispersing 2D interband plasmons in a free-standing graphene monolayer. Europhysics Letters, 2012, 97, 57005.	2.0	68
63	High quality double wall carbon nanotubes with a defined diameter distribution by chemical vapor deposition from alcohol. Carbon, 2006, 44, 3177-3182.	10.3	66
64	Potassium intercalated bundles of single-wall carbon nanotubes: electronic structure and optical properties. Solid State Communications, 1999, 109, 721-726.	1.9	65
65	Quasicontinuous electron and hole doping ofC60peapods. Physical Review B, 2003, 67, .	3.2	64
66	Electronic properties of FeCl3-intercalated single-wall carbon nanotubes. Physical Review B, 2004, 70, .	3.2	64
67	Screening the Missing Electron: Nanochemistry in Action. Physical Review Letters, 2009, 102, 046804.	7.8	64
68	Purification-induced sidewall functionalization of magnetically pure single-walled carbon nanotubes. Nanotechnology, 2007, 18, 375601.	2.6	63
69	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. Materials Chemistry Frontiers, 2017, 1, 278-285.	5.9	62
70	Electronic band gaps of confined linear carbon chains ranging from polyyne to carbyne. Physical Review Materials, 2017, 1, .	2.4	61
71	Evidence for substitutional boron in doped single-walled carbon nanotubes. Applied Physics Letters, 2010, 96, .	3.3	60
72	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. Nanoscale, 2015, 7, 1383-1391.	5.6	60

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73	Carbon Nanotube Chirality Determines Properties of Encapsulated Linear Carbon Chain. Nano Letters, 2018, 18, 5426-5431.	9.1	60
74	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. Angewandte Chemie - International Edition, 2019, 58, 5763-5768.	13.8	60
75	Catalyst Volume to Surface Area Constraints for Nucleating Carbon Nanotubes. Journal of Physical Chemistry B, 2007, 111, 8234-8241.	2.6	59
76	Unraveling van Hove singularities in x-ray absorption response of single-wall carbon nanotubes. Physical Review B, 2007, 75, .	3.2	58
77	Diameter selective charge transfer in p- and n-doped single wall carbon nanotubes synthesized by the HiPCO method. Chemical Communications, 2002, , 1730-1731.	4.1	57
78	Influence of the Catalyst Hydrogen Pretreatment on the Growth of Vertically Aligned Nitrogen-Doped Carbon Nanotubes. Chemistry of Materials, 2007, 19, 6131-6137.	6.7	56
79	Catalyst and Chirality Dependent Growth of Carbon Nanotubes Determined Through Nanoâ€Test Tube Chemistry. Advanced Materials, 2010, 22, 3685-3689.	21.0	54
80	Infrared response of multiwalled boron nitride nanotubes. Chemical Communications, 2003, , 82-83.	4.1	53
81	Electronic and mechanical coupling between guest and host in carbon peapods. Physical Review B, 2004, 69, .	3.2	52
82	Spectroscopic investigation of nitrogen doped graphene. Applied Physics Letters, 2012, 101, .	3.3	52
83	Electron-vibrational mode coupling in K3C60 from IR-transmittance and reflectivity. Solid State Communications, 1993, 86, 221-225.	1.9	50
84	Isotope-Engineered Single-Wall Carbon Nanotubes; A Key Material for Magnetic Studies. Journal of Physical Chemistry C, 2007, 111, 4094-4098.	3.1	50
85	Direct observation of a dispersionless impurity band in hydrogenated graphene. Physical Review B, 2011, 83, .	3.2	49
86	Silver filled single-wall carbon nanotubesâ€"synthesis, structural and electronic properties. Nanotechnology, 2006, 17, 2415-2419.	2.6	47
87	Nanoengineered Catalyst Particles as a Key for Tailor-Made Carbon Nanotubes. Chemistry of Materials, 2007, 19, 5006-5009.	6.7	47
88	Control of the single-wall carbon nanotube mean diameter in sulphur promoted aerosol-assisted chemical vapour deposition. Carbon, 2007, 45, 55-61.	10.3	45
89	Polyyne electronic and vibrational properties under environmental interactions. Physical Review B, 2016, 94, .	3.2	45
90	Doping of metalâ€"organic frameworks towards resistive sensing. Scientific Reports, 2017, 7, 2439.	3.3	45

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91	Electronic properties of intercalated single-wall carbon nanotubes and C60peapods. New Journal of Physics, 2003, 5, 156-156.	2.9	43
92	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. Chemistry of Materials, 2011, 23, 2201-2208.	6.7	43
93	Analysis of the concentration of C 60 fullerenes in single wall carbon nanotubes. Applied Physics A: Materials Science and Processing, 2003, 76, 449-456.	2.3	41
94	High-Quality Double-Walled Carbon Nanotubes Grown by a Cold-Walled Radio Frequency Chemical Vapor Deposition Process. Chemistry of Materials, 2008, 20, 3466-3472.	6.7	41
95	Double-Wall Carbon Nanotubes. Topics in Applied Physics, 2007, , 495-530.	0.8	40
96	Selective Enhancement of Photoluminescence in Filled Singleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2012, 22, 3202-3208.	14.9	40
97	Proof for trivalent Sc ions inSc2@C84from high-energy spectroscopy. Physical Review B, 2000, 62, 13196-13201.	3.2	38
98	A detailed analysis of the Raman spectra in superconducting boron doped nanocrystalline diamond. Physica Status Solidi (B): Basic Research, 2012, 249, 2656-2659.	1.5	38
99	Revealing the Small-Bundle Internal Structure of Vertically Aligned Single-Walled Carbon Nanotube Filmsâ€. Journal of Physical Chemistry C, 2007, 111, 17861-17864.	3.1	37
100	Tailoring carbon nanostructures via temperature and laser irradiation. Chemical Physics Letters, 2005, 407, 254-259.	2.6	36
101	Effects of the reaction atmosphere composition on the synthesis of single and multiwalled nitrogen-doped nanotubes. Journal of Chemical Physics, 2007, 127, 184709.	3.0	36
102	Doppler imaging of stellar surface structure. Astronomy and Astrophysics, 2003, 411, 595-604.	5.1	35
103	Catalyst size dependencies for carbon nanotube synthesis. Physica Status Solidi (B): Basic Research, 2007, 244, 3911-3915.	1.5	35
104	Electronic structure and optical properties of concentric-shell fullerenes from electron-energy-loss spectroscopy in transmission. Physical Review B, 2001, 63, .	3.2	34
105	Structural, optical, and electronic properties of vanadium oxide nanotubes. Physical Review B, 2005, 72, .	3.2	34
106	Carbon ahead. Nature Materials, 2007, 6, 332-333.	27.5	34
107	Spectroscopic Characterization of N-Doped Single-Walled Carbon Nanotube Strands: An X-ray Photoelectron Spectroscopy and Raman Study. Journal of Nanoscience and Nanotechnology, 2010, 10, 3959-3964.	0.9	34
108	Detailed analysis of the Raman response ofn-doped double-wall carbon nanotubes. Physical Review B, 2006, 74, .	3.2	33

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109	Internal charge transfer in metallicity sorted ferrocene filled carbon nanotube hybrids. Carbon, 2013, 59, 237-245.	10.3	33
110	Approaching the Shockleyâ€"Queisser limit for fill factors in leadâ€"tin mixed perovskite photovoltaics. Journal of Materials Chemistry A, 2020, 8, 693-705.	10.3	33
111	Spectroscopic analysis of single-wall carbon nanotubes and carbon nanotube peapods. Diamond and Related Materials, 2002, 11, 957-960.	3.9	32
112	An electron energy-loss study of the structural and electronic properties of magnetically aligned single wall carbon nanotubes. Synthetic Metals, 2001, 121, 1183-1186.	3.9	31
113	Electronic structure of the trimetal nitride fullereneDy3N@C80. Physical Review B, 2005, 72, .	3.2	31
114	Revealing the Adsorption Mechanisms of Nitroxides on Ultrapure, Metallicity-Sorted Carbon Nanotubes. ACS Nano, 2014, 8, 1375-1383.	14.6	31
115	Electronic properties of barium-intercalated single-wall carbon nanotubes. Physical Review B, 2004, 70, .	3.2	30
116	Tuning Localized Transverse Surface Plasmon Resonance in Electricity-Selected Single-Wall Carbon Nanotubes by Electrochemical Doping. Physical Review Letters, 2015, 114, 176807.	7.8	30
117	2D Heterostructures Derived from MoS₂â€Templated, Cobaltâ€Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. ChemElectroChem, 2017, 4, 709-715.	3.4	30
118	Raman Scattering Cross Section of Confined Carbyne. Nano Letters, 2020, 20, 6750-6755.	9.1	30
119	The electronic structure of from high energy spectroscopy. European Physical Journal B, 1998, 1, 11-17.	1.5	29
120	Templating rare-earth hybridization via ultrahigh vacuum annealing of ErCl3nanowires inside carbon nanotubes. Physical Review B, 2011, 83, .	3.2	29
121	Electronic structure of Eu atomic wires encapsulated inside single-wall carbon nanotubes. Physical Review B, 2012, 86, .	3.2	29
122	Inner tube growth properties and electronic structure of ferrocene-filled large diameter single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2013, 250, 2575-2580.	1.5	29
123	Chirality-dependent growth of single-wall carbon nanotubes as revealed inside nano-test tubes. Nanoscale, 2017, 9, 7998-8006.	5.6	29
124	Acid Free Oxidation and Simple Dispersion Method of MWCNT for High-Performance CFRP. Nanomaterials, 2018, 8, 912.	4.1	29
125	The metallofullerene Tm@C 82 : isomer-selective electronic structure. Applied Physics A: Materials Science and Processing, 1998, 66, 281-285.	2.3	28
126			

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127	One-step catalyst-free generation of carbon nanospheres via laser-induced pyrolysis of anthracene. Journal of Solid State Chemistry, 2008, 181, 2796-2803.	2.9	27
128	Toward Confined Carbyne with Tailored Properties. Nano Letters, 2021, 21, 1096-1101.	9.1	27
129	Elimination of metal catalyst and carbon-like impurities from single-wall carbon nanotube raw material. Applied Physics A: Materials Science and Processing, 2004, 78, 311-314.	2.3	26
130	On the effects of solution and reaction parameters for the aerosol-assisted CVD growth of long carbon nanotubes. Applied Physics A: Materials Science and Processing, 2006, 82, 719-725.	2.3	26
131	Facilitating the CVD synthesis of seamless double-walled carbon nanotubes. Nanotechnology, 2007, 18, 275610.	2.6	26
132	CVD growth of singleâ€walled Bâ€doped carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1935-1938.	1.5	26
133	Raman response of stage-1 graphite intercalation compounds revisited. Physical Review B, 2012, 86, .	3.2	26
134	Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. ACS Nano, 2018, 12, 8477-8484.	14.6	26
135	Normal-state Fermi surface of pristine and Pb-doped Bi2Sr2CaCu2O8+Î´ from angle-resolved photoemission measurements and its photon energy independence. Physical Review B, 2000, 62, 154-157.	3.2	25
136	Raman response of FeCl₃ intercalated singleâ€wall carbon nanotubes at high doping. Physica Status Solidi (B): Basic Research, 2009, 246, 2732-2736.	1.5	25
137	Selective phase growth and precise-layer control in MoTe2. Communications Materials, 2020, 1, .	6.9	25
138	Filling factor and electronic structure ofDy3N@C80filled single-wall carbon nanotubes studied by photoemission spectroscopy. Physical Review B, 2006, 73, .	3.2	24
139	Eutectic limit for the growth of carbon nanotubes from a thin iron film by chemical vapor deposition of cyclohexane. Chemical Physics Letters, 2006, 425, 301-305.	2.6	24
140	Chemical vapor deposition of functionalized singleâ€walled carbon nanotubes with defined nitrogen doping. Physica Status Solidi (B): Basic Research, 2007, 244, 4051-4055.	1.5	24
141	Atomically precise semiconductorâ€"graphene and hBN interfaces by Ge intercalation. Scientific Reports, 2015, 5, 17700.	3.3	24
142	Probing Exciton Dispersions of Freestanding Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ by Momentum-Resolved Electron Energy-Loss Spectroscopy. Physical Review Letters, 2020, 124, 087401.	7.8	24
143	Ferrocene encapsulated in singleâ€wall carbon nanotubes: a precursor to secondary tubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4102-4105.	1.5	23
144	Potassium-intercalated single-wall carbon nanotube bundles: Archetypes for semiconductor/metal hybrid systems. Physical Review B, 2009, 79, .	3.2	23

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145	Orbital and spin magnetic moments of transforming one-dimensional iron inside metallic and semiconducting carbon nanotubes. Physical Review B, 2013, 87, .	3.2	23
146	Nickel clusters embedded in carbon nanotubes as high performance magnets. Scientific Reports, 2015, 5, 15033.	3.3	23
147	Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. Carbon, 2021, 171, 221-229.	10.3	23
148	Raman resonance profile of an individual confined long linear carbon chain. Carbon, 2018, 139, 581-585.	10.3	22
149	Vibrational structure of C84 and Sc2@C84 analyzed by IR spectroscopy. Journal of Molecular Structure, 1997, 408-409, 359-362.	3.6	21
150	Chiral vector and metal catalyst-dependent growth kinetics of single-wall carbon nanotubes. Carbon, 2018, 133, 283-292.	10.3	21
151	Fermi level engineering of metallicity-sorted metallic single-walled carbon nanotubes by encapsulation of few-atom-thick crystals of silver chloride. Journal of Materials Science, 2018, 53, 13018-13029.	3.7	21
152	CHARGE TRANSFER IN DOPED SINGLE WALL CARBON NANOTUBES. Synthetic Metals, 2003, 135-136, 717-719.	3.9	20
153	Influence of theC60filling on the nature of the metallic ground state in intercalated peapods. Physical Review B, 2005, 72, .	3.2	20
154	Novel catalysts for low temperature synthesis of single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3101-3105.	1.5	20
155	Incidence of the Tomonaga-Luttinger liquid state on the NMR spin-lattice relaxation in carbon nanotubes. Europhysics Letters, 2010, 90, 17004.	2.0	20
156	Ethanol-Promoted Fabrication of Tungsten Oxide Nanobelts with Defined Crystal Orientation. Journal of Physical Chemistry C, 2010, 114, 10-14.	3.1	20
157	Temperature dependence of inner tube growth from ferroceneâ€filled singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2492-2495.	1.5	20
158	A Resonant Photoemission Insight to the Electronic Structure of Gd Nanowires Templated in the Hollow Core of SWCNTs. Materials Express, 2011, 1, 30-35.	0.5	20
159	Anti-Stokes Raman Scattering of Single Carbyne Chains. ACS Nano, 2021, 15, 12249-12255.	14.6	20
160	Vibrational analysis of IR reflection-transmission from single crystal C60. European Physical Journal B, 1994, 96, 39-45.	1.5	19
161	Air stability of single crystal Rb1C60 from infrared reflectivity measurements. Applied Physics Letters, 1995, 66, 1211-1213.	3.3	19
162	Electronic properties of potassium-intercalatedC60peapods. Physical Review B, 2004, 69, .	3.2	19

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163	Formation of novel nanostructures using carbon nanotubes as a frame. Synthetic Metals, 2005, 153, 345-348.	3.9	19
164	Bonding environment and electronic structure of Gd metallofullerene and Gd nanowire filled singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2038-2041.	1.5	19
165	Exposing Multiple Roles of H₂O in High-Temperature Enhanced Carbon Nanotube Synthesis. Chemistry of Materials, 2008, 20, 6586-6588.	6.7	19
166	Nitrogenâ€doped SWCNT synthesis using ammonia and carbon monoxide. Physica Status Solidi (B): Basic Research, 2010, 247, 2726-2729.	1.5	19
167	Combined experimental and<i>ab initio</i>study of the electronic structure of narrow-diameter single-wall carbon nanotubes with predominant (6,4),(6,5) chirality. Physical Review B, 2010, 82, .	3.2	19
168	Tunable Interface Properties between Pentacene and Graphene on the SiC Substrate. Journal of Physical Chemistry C, 2013, 117, 3969-3975.	3.1	19
169	Carbon nanotubes from enhanced direct injection pyrolytic synthesis as templates for long linear carbon chain formation. Physica Status Solidi (B): Basic Research, 2013, 250, 2611-2615.	1.5	19
170	On the bonding environment of phosphorus in purified doped single-walled carbon nanotubes. Carbon, 2015, 81, 91-95.	10.3	19
171	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. Nanoscale, 2019, 11, 10615-10621.	5.6	19
172	Nanochemical reactions by laser annealing of ferrocene filled singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2488-2491.	1.5	18
173	<i>In situ</i> filling of metallic singleâ€walled carbon nanotubes with ferrocene molecules. Physica Status Solidi (B): Basic Research, 2012, 249, 2408-2411.	1.5	18
174	A Fourier transform Raman spectrometer with visible laser excitation. Journal of Raman Spectroscopy, 2015, 46, 327-332.	2.5	18
175	Selective Enhancement of Inner Tube Photoluminescence in Filled Doubleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2016, 26, 4874-4881.	14.9	18
176	Silver Chloride Encapsulation-Induced Modifications of Raman Modes of Metallicity-Sorted Semiconducting Single-Walled Carbon Nanotubes. Journal of Spectroscopy, 2018, 2018, 1-9.	1.3	18
177	The growth of new extended carbon nanophases from ferrocene inside singleâ€walled carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700158.	2.4	17
178	The electronic structure of polymerized fullerenes and dimerized heterofullerenes. Applied Physics A: Materials Science and Processing, 1997, 64, 301-305.	2.3	16
179	Electronic structures of the pristine and K-intercalatedTm3N@C80endohedral fullerenes. Physical Review B, 2005, 72, .	3.2	16
180	Analysis of the anisotropy of excitons in pentacene single crystals using reflectivity measurements and electron energy-loss spectroscopy. Physical Review B, 2006, 74, .	3.2	16

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