Hidetsugu Shiozawa

List of Publications by Year
in descending order

100 papers	2,787 citations	218677 26 h-index	182427 51 g-index
106 all docs	106 docs citations	106 times ranked	3239 citing authors

#	Article	IF	Citations
1	Direct observation of Tomonagaâ€"Luttinger-liquid state in carbon nanotubes at low temperatures. Nature, 2003, 426, 540-544.	27.8	459
2	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. Physical Review B, 2008, 78, .	3.2	243
3	A Catalytic Reaction Inside a Singleâ€Walled Carbon Nanotube. Advanced Materials, 2008, 20, 1443-1449.	21.0	178
4	Electron-Electron Correlation in Graphite: A Combined Angle-Resolved Photoemission and First-Principles Study. Physical Review Letters, 2008, 100, 037601.	7.8	103
5	Hybrid Carbon Nanotube Networks as Efficient Hole Extraction Layers for Organic Photovoltaics. ACS Nano, 2013, 7, 556-565.	14.6	102
6	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
7	Fine tuning the charge transfer in carbon nanotubes via the interconversion of encapsulated molecules. Physical Review B, 2008, 77, .	3.2	79
8	Disentanglement of the electronic properties of metallicity-selected single-walled carbon nanotubes. Physical Review B, 2009, 80, .	3.2	73
9	Confined Crystals of the Smallest Phase-Change Material. Nano Letters, 2013, 13, 4020-4027.	9.1	73
10	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. Angewandte Chemie - International Edition, 2017, 56, 15267-15273.	13.8	69
11	Screening the Missing Electron: Nanochemistry in Action. Physical Review Letters, 2009, 102, 046804.	7.8	64
12	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. Nanoscale, 2015, 7, 1383-1391.	5.6	60
13	Unraveling van Hove singularities in x-ray absorption response of single-wall carbon nanotubes. Physical Review B, 2007, 75, .	3.2	58
14	Catalyst and Chirality Dependent Growth of Carbon Nanotubes Determined Through Nanoâ€Test Tube Chemistry. Advanced Materials, 2010, 22, 3685-3689.	21.0	54
15	Photoemission and inverse photoemission study of the electronic structure ofC60fullerenes encapsulated in single-walled carbon nanotubes. Physical Review B, 2006, 73, .	3.2	45
16	Doping of metalâ€"organic frameworks towards resistive sensing. Scientific Reports, 2017, 7, 2439.	3.3	45
17	Anisotropic Eliashberg function and electron-phonon coupling in doped graphene. Physical Review B, 2013, 88, .	3.2	41
18	Hybridization effects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ce</mml:mi><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mi mathvariant="normal">In</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>observed by angle-resolved photoemission. Physical Review B, 2008, 77, .	3.2	40

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19	Electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeCoIn</mml:mtext></mml:mrow><mml:mn>5</mml:mn></m angle-resolved photoemission spectroscopy. Physical Review B, 2009, 79, .	3.2	38
20	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
21	Internal charge transfer in metallicity sorted ferrocene filled carbon nanotube hybrids. Carbon, 2013, 59, 237-245.	10.3	33
22	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
23	Electronic structure of the trimetal nitride fullereneDy3N@C80. Physical Review B, 2005, 72, .	3.2	31
24	Templating rare-earth hybridization via ultrahigh vacuum annealing of ErCl3nanowires inside carbon nanotubes. Physical Review B, 2011, 83, .	3.2	29
25	Electronic structure of Eu atomic wires encapsulated inside single-wall carbon nanotubes. Physical Review B, 2012, 86, .	3.2	29
26	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
27	Chirality-dependent growth of single-wall carbon nanotubes as revealed inside nano-test tubes. Nanoscale, 2017, 9, 7998-8006.	5.6	29
28	From Stems (and Stars) to Roses: Shape-Controlled Synthesis of Zinc Oxide Crystals. Crystal Growth and Design, 2009, 9, 3432-3437.	3.0	25
29	Filling factor and electronic structure ofDy3N@C80filled single-wall carbon nanotubes studied by photoemission spectroscopy. Physical Review B, 2006, 73, .	3.2	24
30	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
31	Potassium-intercalated single-wall carbon nanotube bundles: Archetypes for semiconductor/metal hybrid systems. Physical Review B, 2009, 79, .	3.2	23
32	Orbital and spin magnetic moments of transforming one-dimensional iron inside metallic and semiconducting carbon nanotubes. Physical Review B, 2013, 87, .	3.2	23
33	Nickel clusters embedded in carbon nanotubes as high performance magnets. Scientific Reports, 2015, 5, 15033.	3.3	23
34	Hostâ€"Guest Interactions in Metalâ€"Organic Frameworks Doped with Acceptor Molecules as Revealed by Resonance Raman Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 24245-24250.	3.1	22
35	Chiral vector and metal catalyst-dependent growth kinetics of single-wall carbon nanotubes. Carbon, 2018, 133, 283-292.	10.3	21
36	Influence of theC60filling on the nature of the metallic ground state in intercalated peapods. Physical Review B, 2005, 72, .	3.2	20

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37	Ethanol-Promoted Fabrication of Tungsten Oxide Nanobelts with Defined Crystal Orientation. Journal of Physical Chemistry C, 2010, 114, 10-14.	3.1	20
38	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
39	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
40	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
41	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. Nanoscale, 2019, 11, 10615-10621.	5.6	19
42	<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
43	Capillary filling of singleâ€walled carbon nanotubes with ferrocene in an organic solvent. Physica Status Solidi (B): Basic Research, 2008, 245, 1983-1985.	1.5	15
44	Electronic properties of singleâ€walled carbon nanotubes encapsulating a cerium organometallic compound. Physica Status Solidi (B): Basic Research, 2009, 246, 2626-2630.	1.5	15
45	Temperature-dependent inner tube growth and electronic structure of nickelocene-filled single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2015, 252, 2485-2490.	1.5	15
46	Highly conductive nanoclustered carbon:nickel films grown by pulsed laser deposition. Carbon, 2011, 49, 3781-3788.	10.3	14
47	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. Angewandte Chemie, 2017, 129, 15469-15475.	2.0	12
48	Synthesis and size-dependent spin crossover of coordination polymer [Fe(Htrz)2(trz)](BF4). Journal of Materials Chemistry C, 2021, 9, 1077-1084.	5.5	12
49	Local Magnetic Susceptibility in Rare-Earth Compounds. Journal of the Physical Society of Japan, 2003, 72, 2079-2084.	1.6	11
50	Magnetic Circular Dichroism of X-Ray Emission for Gadolinium in 4dâ€“4f Excitation Region. Journal of the Physical Society of Japan, 2002, 71, 340-346.	1.6	10
51	A detailed comparison of CVD grown and precursor based DWCNTs. Physica Status Solidi (B): Basic Research, 2008, 245, 1943-1946.	1.5	10
52	Growth dynamics of inner tubes inside cobaltocene-filled single-walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	10
53	RESONANT PHOTOEMISSION STUDY OF RFe4P12 (R = La, Ce, Pr). Surface Review and Letters, 2002, 09, 1257-1261.	1.1	9
54	Lowâ€temperature growth of singleâ€wall carbon nanotubes inside nano test tubes. Physica Status Solidi (B): Basic Research, 2010, 247, 2730-2733.	1.5	9

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55	Observation of the Fermi surface, the band structure, and their diffraction replicas ofSr14âˆ'xCaxCu24O41by angle-resolved photoemission spectroscopy. Physical Review B, 2010, 81, .	3.2	9
56	Room temperature synthesis of a luminescent crystalline Cuâ€"BTC coordination polymer and metalâ€"organic framework. Materials Advances, 2022, 3, 224-231.	5.4	9
57	An X-ray absorption approach to mixed and metallicity-sorted single-walled carbon nanotubes. Journal of Materials Science, 2010, 45, 5318-5322.	3.7	8
58	<i>In situ</i> Raman spectroscopy studies on timeâ€dependent inner tube growth in ferroceneâ€filled large diameter singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2014, 251, 2394-2400.	1.5	8
59	Charge distribution of potassium intercalated Dy3N@C80 observed with core-level and valence-band photoemission. Physica Status Solidi (B): Basic Research, 2006, 243, 3004-3007.	1.5	7
60	Anisotropy in the X-ray absorption of vertically aligned single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 3978-3981.	1.5	7
61	Spontaneous Emergence of Long-Range Shape Symmetry. Nano Letters, 2011, 11, 160-163.	9.1	7
62	Disentanglement of the unoccupied electronic structure in metallic and semiconductingC60peapods. Physical Review B, 2011, 83, .	3.2	7
63	Microscopic insight into the bilateral formation of carbon spirals from a symmetric iron core. Scientific Reports, 2013, 3, 1840.	3.3	7
64	Growth mechanisms of innerâ€shell tubes in doubleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4097-4101.	1.5	6
65	Electronic and optical properties of alkali metal doped carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2693-2698.	1.5	6
66	Environmental stability of ferrocene filled in purely metallic single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2013, 250, 2599-2604.	1.5	6
67	Tailoring the electronic properties of single-walled carbon nanotubes via filling with nickel acetylacetonate. Physica Status Solidi (B): Basic Research, 2015, 252, 2546-2550.	1.5	6
68	Observing the heavy fermions in CeCoIn5 by angle-resolved photoemission. Physica C: Superconductivity and Its Applications, 2007, 460-462, 666-667.	1.2	5
69	Low energy quasiparticle dispersion of graphite by angleâ€resolved photoemission spectroscopy. Physica Status Solidi (B): Basic Research, 2007, 244, 4129-4133.	1.5	5
70	Photoemission study of electronic structures of fullerene and metallofullerene peapods. Physica Status Solidi (B): Basic Research, 2008, 245, 2025-2028.	1.5	5
71	Photoemission spectroscopy on single-wall carbon nanotubes. Physica B: Condensed Matter, 2004, 351, 259-261.	2.7	4
72	Reversible changes in the electronic structure of carbon nanotube-hybrids upon NO₂ exposure under ambient conditions. Journal of Materials Chemistry A, 2020, 8, 9753-9759.	10.3	4

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73	Crystal engineering with copper and melamine. RSC Advances, 2021, 11, 23943-23947.	3.6	4
74	Measurement of the two-photon correlation of synchrotron radiation in the VUV region by a delay-time modulation technique. Journal of Synchrotron Radiation, 2003, 10, 303-309.	2.4	3
75	Resonant photoemission study of CeRu4Sb12. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 643-645.	1.7	3
76	A combined photoemission and <i>ab initio</i> study of the electronic structure of (6,4)/(6,5) enriched single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 2875-2879.	1.5	3
77	The Effect of pH on the Functionalization of Nylon Fabric with Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2012, 12, 84-90.	0.9	3
78	Near-field infrared microscopy of nanometer-sized nickel clusters inside single-walled carbon nanotubes. RSC Advances, 2019, 9, 34120-34124.	3.6	3
79	Electron-beam diagnosis with Young's interferometer in soft X-ray region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 455, 217-221.	1.6	2
80	MAGNETIC CIRCULAR DICHROISM OF 4dâ€“4f RESONANT X-RAY EMISSION FOR GADOLINIUM AND TERBIUM. Surface Review and Letters, 2002, 09, 837-841.	1.1	2
81	Measurements of temperature dependence of â€œlocalized susceptibilityâ€• Nuclear Instruments & Methods in Physics Research B, 2003, 199, 318-322.	1.4	2
82	Interpretation of difference between bulk magnetic susceptibility and â€œlocal magnetic susceptibilityâ€• detected by core excitation magnetic circular dichroism. Journal of Electron Spectroscopy and Related Phenomena, 2004, 136, 117-123.	1.7	2
83	Electronic Structure of Single-Wall Carbon Nanotubes and Peapods; Photoemission Study. AIP Conference Proceedings, 2004, , .	0.4	2
84	High-resolution angle-resolved photoemission study of kish graphite. Physica B: Condensed Matter, 2006, 383, 150-151.	2.7	2
85	Orbital and spin magnetic moments of ferrocene encapsulated in metallicity sorted singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 2424-2427.	1.5	2
86	Length scales in orientational order of vertically aligned single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2013, 250, 2631-2634.	1.5	2
87	Resonant inverse photoemission of Pr compounds. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 647-650.	1.7	1
88	A photoemission study of the metallic ground state of potassium-doped C60 peapods. Physica Status Solidi (B): Basic Research, 2006, 243, 3013-3016.	1.5	1
89	GeTe-filled Carbon Nanotubes for Data Storage Applications. Materials Research Society Symposia Proceedings, 2010, 1251, 3.	0.1	1
90	High resolution Xâ€ray absorption on metallicity selected C₆₀ peapods, singleâ€, and double walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2544-2547.	1.5	1

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91	Endohedrally Doped Carbon Nanotubes. , 2016, , 385-414.		1
92	Electrochromic 2,5â€Đihydroxyterephthalic Acid Linker in Metalâ˜'Organic Frameworks. Advanced Photonics Research, 0, , 2100219.	3.6	1
93	MEASUREMENT OF THE SECOND-ORDER COHERENCE OF SYNCHROTRON RADIATION IN THE VUV REGION. Surface Review and Letters, 2002, 09, 631-634.	1.1	0
94	Valence-Band Photoemission Study of Single-Wall Carbon Nanotubes. AIP Conference Proceedings, 2003, , .	0.4	0
95	Temperature dependence of magnetic circular dichroism of X-ray emission for rare-earth compounds. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 731-735.	1.7	0
96	Substitutionally-Functionalized vs Metallicity-Selected Single-Walled Carbon Nanotubes: A High Energy Spectroscopy Viewpoint. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
97	Insight to the valence band electronic structure of metallicity selected single wall carbon nanotubes from a photoemission viewpoint. Physica Status Solidi (B): Basic Research, 2010, 247, 2779-2783.	1.5	0
98	Structural properties of mirrored carbon spirals as revealed by scanning electron microscopy and micro-Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2013, 250, 2737-2740.	1.5	0
99	Microscale magnetic compasses. Journal of Applied Physics, 2017, 122, .	2.5	0
100	10.1063/1.4985838.1. , 2017, , .		0