

Sususmu Okada

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#	Paper	IF	Citations
3 ¹¹	Energetics and electronic structures of encapsulated C60 in a carbon nanotube. <i>Physical Review Letters</i> , 2001 , 86, 3835-8	7.4	359
3 ¹⁰	Magnetic ordering in hexagonally bonded sheets with first-row elements. <i>Physical Review Letters</i> , 2001 , 87, 146803	7.4	339
3 ⁰⁹	Polarized absorption spectra of single-walled 4 Å carbon nanotubes aligned in channels of an AlPO(4)-5 single crystal. <i>Physical Review Letters</i> , 2001 , 87, 127401	7.4	263
3 ⁰⁸	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. <i>Nature Nanotechnology</i> , 2014 , 9, 436-42	28.7	185
3 ⁰⁷	Semiconducting electronic property of graphene adsorbed on (0001) surfaces of SiO ₂ . <i>Physical Review Letters</i> , 2011 , 106, 106801	7.4	159
3 ⁰⁶	Enhanced chemical reactivity of graphene induced by mechanical strain. <i>ACS Nano</i> , 2013 , 7, 10335-43	16.7	130
3 ⁰⁵	One-dimensional van der Waals heterostructures. <i>Science</i> , 2020 , 367, 537-542	33.3	119
3 ⁰⁴	Energetics of nanoscale graphene ribbons: Edge geometries and electronic structures. <i>Physical Review B</i> , 2008 , 77,	3.3	119
3 ⁰³	New Metallic Crystalline Carbon: Three Dimensionally Polymerized C60 Fullerite. <i>Physical Review Letters</i> , 1999 , 83, 1986-1989	7.4	111
3 ⁰²	Influence of disorder on conductance in bilayer graphene under perpendicular electric field. <i>Nano Letters</i> , 2010 , 10, 3888-92	11.5	106
3 ⁰¹	Formation and Characterization of Hydrogen Boride Sheets Derived from MgB by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13761-13769	16.4	104
3 ⁰⁰	Energetics and electronic structures of one-dimensional fullerene chains encapsulated in zigzag nanotubes. <i>Physical Review B</i> , 2003 , 68,	3.3	102
2 ⁹⁹	Electron-state control of carbon nanotubes by space and encapsulated fullerenes. <i>Physical Review B</i> , 2003 , 67,	3.3	100
2 ⁹⁸	Nanoporous carbon tubes from fullerene crystals as the electron carbon source. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 951-5	16.4	96
2 ⁹⁷	A massively-parallel electronic-structure calculations based on real-space density functional theory. <i>Journal of Computational Physics</i> , 2010 , 229, 2339-2363	4.1	92
2 ⁹⁶	Coaxially stacked coronene columns inside single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4853-7	16.4	87
2 ⁹⁵	Electronic structure and energetics of pressure-induced two-dimensional C60 polymers. <i>Physical Review B</i> , 1999 , 59, 1930-1936	3.3	86

294	Phase control of graphene nanoribbon by carrier doping: appearance of noncollinear magnetism. <i>Nano Letters</i> , 2009 , 9, 269-72	11.5	83
293	Nanometer-Scale Ferromagnet: Carbon Nanotubes with Finite Length. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 1510-1515	1.5	80
292	Highly Uniform Bilayer Graphene on Epitaxial CuNi(111) Alloy. <i>Chemistry of Materials</i> , 2016 , 28, 4583-4592	2.6	75
291	Nearly free electron states in carbon nanotube bundles. <i>Physical Review B</i> , 2000 , 62, 7634-7638	3.3	75
290	Optical band gap modification of single-walled carbon nanotubes by encapsulated fullerenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4122-8	16.4	73
289	Interwall interaction and electronic structure of double-walled BN nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	72
288	Ferromagnetic spin ordering on carbon nanotubes with topological line defects. <i>Physical Review B</i> , 2006 , 74,	3.3	67
287	Electrochemical Tuning of Electronic Structure of C60 and C70 Fullerene Peapods: In Situ Visible Near-Infrared and Raman Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7666-7675	3.4	66
286	Curvature-induced metallization of double-walled semiconducting zigzag carbon nanotubes. <i>Physical Review Letters</i> , 2003 , 91, 216801	7.4	65
285	Border states in heterosheets with hexagonal symmetry. <i>Physical Review B</i> , 2000 , 62, 9896-9899	3.3	64
284	Atomic configurations and energetics of vacancies in hexagonal boron nitride: First-principles total-energy calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	63
283	Common electronic structure and pentagon pairing in extractable fullerenes. <i>Physical Review Letters</i> , 1995 , 75, 685-688	7.4	63
282	Hybrid functional study of the NASICON-type Na ₃ V ₂ (PO ₄) ₃ : crystal and electronic structures, and polaron-Na vacancy complex diffusion. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30433-9	3.6	61
281	Energetics and electronic structure of graphene adsorbed on HfO ₂ (111): Density functional theory calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	60
280	Chemically Tuned p- and n-Type WSe Monolayers with High Carrier Mobility for Advanced Electronics. <i>Advanced Materials</i> , 2019 , 31, e1903613	24	56
279	Electronic Structure of Graphene with a Topological Line Defect. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 013709	1.5	55
278	Carbon three-dimensional architecture formed by intersectional collision of graphene patches. <i>Physical Review B</i> , 2005 , 72,	3.3	53
277	Intrinsic magnetic moment on (0001) surfaces of rhombohedral graphite. <i>Physical Review B</i> , 2010 , 81,	3.3	52

276	Three-dimensional crystalline carbon: Stable polymers of C20 fullerene. <i>Physical Review B</i> , 2001 , 64,	3.3	47
275	Rhombohedral C60spolymer: mA semiconducting solid carbon structure. <i>Physical Review B</i> , 1997 , 55, 4039-4041	3.3	46
274	Efficient Photocarrier Transfer and Effective Photoluminescence Enhancement in Type I Monolayer MoTe2/WSe2 Heterostructure. <i>Advanced Functional Materials</i> , 2018 , 28, 1801021	15.6	45
273	Two-Dimensional sp ² Carbon Network of Fused Pentagons: All Carbon Ferromagnetic Sheet. <i>Applied Physics Express</i> , 2013 , 6, 095101	2.4	45
272	Electronic structure of semiconducting nanotubes adsorbed on metal surfaces. <i>Physical Review Letters</i> , 2005 , 95, 206804	7.4	45
271	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016 , 94,	3.3	45
270	Edge States and Flat Bands of Graphene Nanoribbons with Edge Modification. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 034706	1.5	42
269	Diameter-Dependent Band Gap Modification of Single-Walled Carbon Nanotubes by Encapsulated Fullerenes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 571-575	3.8	42
268	Surface-Mediated Aligned Growth of Monolayer MoS and In-Plane Heterostructures with Graphene on Sapphire. <i>ACS Nano</i> , 2018 , 12, 10032-10044	16.7	42
267	Number of extractable fullerene isomers and speciality of C84. <i>Chemical Physics Letters</i> , 1996 , 252, 94-100	10.5	41
266	Gate-Tunable Dirac Point of Molecular Doped Graphene. <i>ACS Nano</i> , 2016 , 10, 2930-9	16.7	38
265	Photoinduced hydrogen release from hydrogen boride sheets. <i>Nature Communications</i> , 2019 , 10, 4880	17.4	38
264	Hydrogen-Assisted Epitaxial Growth of Monolayer Tungsten Disulfide and Seamless Grain Stitching. <i>Chemistry of Materials</i> , 2018 , 30, 403-411	9.6	38
263	Coexistence of Dirac cones and Kagome flat bands in a porous graphene. <i>Carbon</i> , 2016 , 109, 755-763	10.4	36
262	Observation of Landau levels in potassium-intercalated graphite under a zero magnetic field. <i>Nature Communications</i> , 2012 , 3, 1068	17.4	35
261	Electronic structures of single-walled carbon nanotubes encapsulating ellipsoidal C70. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15252-8	16.4	35
260	Semiconducting form of the first-row elements: C60 chain encapsulated in BN nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	35
259	Highly Conductive and Transparent Large-Area Bilayer Graphene Realized by MoCl Intercalation. <i>Advanced Materials</i> , 2017 , 29, 1702141	24	34

258	Continuous Heteroepitaxy of Two-Dimensional Heterostructures Based on Layered Chalcogenides. <i>ACS Nano</i> , 2019 , 13, 7527-7535	16.7	33
257	Radial-breathing mode frequencies for nanotubes encapsulating fullerenes. <i>Chemical Physics Letters</i> , 2007 , 438, 59-62	2.5	33
256	Field-Induced Free-Electron Carriers in Graphite. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 0737015	15	32
255	Magnetic ordering of dangling bond networks on hydrogen-deposited Si(111) surfaces. <i>Physical Review Letters</i> , 2003 , 90, 026803	7.4	32
254	Formation of nonbonding π electronic states of graphite due to Pt-C hybridization. <i>Physical Review B</i> , 2009 , 80,	3.3	30
253	Direct and Indirect Exciton Dynamics in Few-Layered ReS ₂ Revealed by Photoluminescence and Pump-Probe Spectroscopy. <i>Advanced Functional Materials</i> , 2019 , 29, 1806169	15.6	30
252	Solvent-Mediated Shape Engineering of Fullerene (C ₆₀) Polyhedral Microcrystals. <i>Chemistry of Materials</i> , 2018 , 30, 7146-7153	9.6	30
251	Fabrication and optical probing of highly extended, ultrathin graphene nanoribbons in carbon nanotubes. <i>ACS Nano</i> , 2015 , 9, 5034-40	16.7	29
250	Energetics and electronic structure of graphene nanoribbons under a lateral electric field. <i>Carbon</i> , 2016 , 96, 351-361	10.4	29
249	Magnetic Properties of Graphene Quantum Dots Embedded in h-BN Sheet. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1293-1302	3.8	29
248	Observation of Landau levels on nitrogen-doped flat graphite surfaces without external magnetic fields. <i>Scientific Reports</i> , 2015 , 5, 16412	4.9	29
247	Theoretical Study on the Superconductivity Induced by the Dynamic Jahn-Teller Effect in Alkali-Metal-Doped C ₆₀ . <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 2615-2622	1.5	29
246	Effect of Coulomb interactions on optical properties of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	28
245	Electronic Structure of C ₇₈ and C ₇₈ -Graphite Cointercalation Compound. <i>Journal of the Physical Society of Japan</i> , 1995 , 64, 2100-2105	1.5	28
244	Theoretical calculation for the ultraviolet optical properties of single-walled carbon nanotubes. <i>Physical Review B</i> , 2009 , 79,	3.3	27
243	Effect of fullerene encapsulation on radial vibrational breathing-mode frequencies of single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 103, 027403	7.4	27
242	Energetics of ice nanotubes and their encapsulation in carbon nanotubes from density-functional theory. <i>Physical Review B</i> , 2007 , 75,	3.3	27
241	Tuning localized transverse surface plasmon resonance in electricity-selected single-wall carbon nanotubes by electrochemical doping. <i>Physical Review Letters</i> , 2015 , 114, 176807	7.4	26

240	Phase control of magnetic state of graphite thin films by electric field. <i>Applied Physics Letters</i> , 2010 , 96, 242504	3.4	26
239	Gate-induced electron-state tuning of MoS ₂ : first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 135001	1.8	24
238	Electronic structure of metallic rhombohedral C ₆₀ polymers. <i>Physical Review B</i> , 2003 , 68,	3.3	24
237	Carrier Transport and Photoresponse in GeSe/MoS Heterojunction p-n Diodes. <i>Small</i> , 2018 , 14, e1704559	1	23
236	Energetics and Electronic Structure of h-BN Nanoflakes. <i>Scientific Reports</i> , 2016 , 6, 30653	4.9	23
235	Na-ion diffusion in a NASICON-type solid electrolyte: a density functional study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27226-27231	3.6	23
234	Vapor Phase Selective Growth of Two-Dimensional Perovskite/WS Heterostructures for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40503-40511	9.5	22
233	Energetics and electronic structure of C ₇₀ -peapods and one-dimensional chains of C ₇₀ . <i>New Journal of Physics</i> , 2003 , 5, 122-122	2.9	21
232	Electronic and geometric structures of fluorine adsorbed graphene. <i>Synthetic Metals</i> , 2001 , 121, 1233-1234	3.4	21
231	Multiple exciton generation by a single photon in single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 108, 227401	7.4	20
230	Energetics of carbon peapods: Elliptical deformation of nanotubes and aggregation of encapsulated C ₆₀ . <i>Physical Review B</i> , 2008 , 77,	3.3	20
229	Quantum effects in a double-walled carbon nanotube capacitor. <i>Physical Review B</i> , 2007 , 76,	3.3	20
228	Interplay between the Kagome flat band and the Dirac cone in porous graphitic networks. <i>Carbon</i> , 2017 , 125, 530-535	10.4	19
227	Electronic structure of stacked C ₆₀ shuttlecocks. <i>Chemical Physics Letters</i> , 2004 , 399, 157-161	2.5	19
226	Density functional study on geometry and electronic structure of Eu@C ₆₀ . <i>Chemical Physics Letters</i> , 2000 , 327, 291-298	2.5	19
225	Energetics and Electronic Structure of Triangular Hexagonal Boron Nitride Nanoflakes. <i>Scientific Reports</i> , 2018 , 8, 16657	4.9	19
224	Gate-controlled carrier injection into hexagonal boron nitride. <i>Physical Review B</i> , 2011 , 83,	3.3	18
223	Energetics and electronic structure of encapsulated single-stranded DNA in carbon nanotubes. <i>Physical Review B</i> , 2011 , 83,	3.3	18

222	Substrate-mediated interactions of Pt atoms adsorbed on single-wall carbon nanotubes: Density functional calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	18
221	Effect of encapsulated atoms on the electronic structure of the fullerene cage: A case study on La ₂ @C ₇₈ and Ti ₂ C ₂ @C ₇₈ via ultraviolet photoelectron spectroscopy. <i>Physical Review B</i> , 2007 , 75,	3.3	18
220	Prediction of electronic properties of carbon-based nanostructures. <i>Physica B: Condensed Matter</i> , 2002 , 323, 21-29	2.8	18
219	Electronic Properties of Carbon Nanotubes under an Electric Field. <i>Applied Physics Express</i> , 2012 , 5, 095101	1.1	17
218	Coaxially Stacked Coronene Columns inside Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2011 , 123, 4955-4959	3.6	17
217	Self-redirection of tearing edges in graphene: Tight-binding molecular dynamics simulations. <i>Physical Review B</i> , 2009 , 80,	3.3	17
216	Energetics and electronic structures of carbon nanotubes with adatom/vacancy defects. <i>Chemical Physics Letters</i> , 2007 , 447, 263-267	2.5	17
215	Suppression of conductivity deterioration of copper thin films by coating with atomic-layer materials. <i>Applied Physics Letters</i> , 2017 , 110, 131601	3.4	16
214	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	16
213	Charge manipulation in molecules encapsulated inside single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2013 , 110, 086801	7.4	16
212	Energetics and Electronic Structures of Carbon Nanotubes Encapsulating Polycyclic Aromatic Hydrocarbon Molecules. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 124709	1.5	16
211	Pressure and Orientation Effects on the Electronic Structure of Carbon Nanotube Bundles. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 2345-2352	1.5	16
210	Formation of graphene nanostructures on diamond nanowire surfaces. <i>Chemical Physics Letters</i> , 2009 , 483, 128-132	2.5	15
209	Robustness and Fragility of a Linear Dispersion Band of Bilayer Graphene under an Electric Field. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 113702	1.5	15
208	Semiconducting Electronic Structure of Graphene Adsorbed on Insulating Substrate: Fragility of the Graphene Linear Dispersion Band. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 020204	1.4	15
207	ELECTRONIC STRUCTURE OF FINITE-LENGTH CARBON NANOTUBES: CROSSOVER FROM FULLERENES TO NANOTUBES. <i>Nano</i> , 2007 , 02, 51-57	1.1	15
206	Semimetallicity of free-standing hydrogenated monolayer boron from MgB ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	15
205	Nanoporous Carbon Tubes from Fullerene Crystals as the Electron Carbon Source. <i>Angewandte Chemie</i> , 2015 , 127, 965-969	3.6	14

204	Pentadiamond: A Hard Carbon Allotrope of a Pentagonal Network of sp^2 and sp^3 C Atoms. <i>Physical Review Letters</i> , 2020 , 125, 016001	7.4	14
203	Electron injection into nearly free electron states of graphene nanoribbons under a lateral electric field. <i>Applied Physics Express</i> , 2014 , 7, 125103	2.4	14
202	Interaction between single-wall carbon nanotubes and encapsulated C60 probed by resonance Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8118-22	3.6	14
201	Photoluminescence from Single-Walled MoS Nanotubes Coaxially Grown on Boron Nitride Nanotubes. <i>ACS Nano</i> , 2021 , 15, 8418-8426	16.7	14
200	Effect of structural deformation on carrier accumulation in semiconducting carbon nanotubes under an external electric field. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 045101	1.4	14
199	Catalyst-Selective Growth of Single-Orientation Hexagonal Boron Nitride toward High-Performance Atomically Thin Electric Barriers. <i>Advanced Materials</i> , 2019 , 31, e1900880	24	13
198	Nano-Saturn: Energetics of the Inclusion Process of C60 into Cyclohexabiphenylene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8931-8936	3.8	13
197	Absence of edge states near the 120° corners of zigzag graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87,	3.3	13
196	Electronic structure modulation of graphene edges by chemical functionalization. <i>Applied Physics Express</i> , 2016 , 9, 115102	2.4	13
195	Polar properties of a hexagonally bonded GaN sheet under biaxial compression. <i>Applied Physics Express</i> , 2016 , 9, 095201	2.4	13
194	Mechanically activated switching of Si-based single-molecule junction as imaged with three-dimensional dynamic probe. <i>Nature Communications</i> , 2015 , 6, 8465	17.4	12
193	Geometric and Electronic Structures of Two-Dimensional Networks of Fused C36 Fullerenes. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 084706	1.5	12
192	Experimental Evidence of Anisotropic and Stable Charged Excitons (Trions) in Atomically Thin 2D ReS ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1905961	15.6	12
191	Magnetic Properties of Decamethyl Fullerenes: Radical Spin Interactions in Chemically Functionalized Fullerenes. <i>Applied Physics Express</i> , 2013 , 6, 045102	2.4	12
190	Stability and electronic structure of potassium-intercalated hexagonal boron nitride from density functional calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	12
189	Graphene-diamond hybrid structure as spin-polarized conducting wire with thermally efficient heat sinks. <i>Applied Physics Letters</i> , 2012 , 100, 233101	3.4	12
188	Electronic and geometric structures of multi-walled BN nanotubes. <i>Physica B: Condensed Matter</i> , 2002 , 323, 224-226	2.8	12
187	Energetics and electronic structures of potassium-intercalated C60 peapods. <i>Physical Review B</i> , 2005 , 72,	3.3	12

186	Flat bands and higher-order topology in polymerized triptycene: Tight-binding analysis on decorated star lattices. <i>Physical Review Materials</i> , 2019 , 3,	3.2	12
185	A novel graphene barrier against moisture by multiple stacking large-grain graphene. <i>Scientific Reports</i> , 2019 , 9, 3777	4.9	11
184	Out-of-Plane Strain Induced in a Moiré Superstructure of Monolayer MoS and MoSe on Au(111). <i>Small</i> , 2017 , 13, 1700748	11	11
183	Influence of Aromatic Environments on the Physical Properties of β -Carotene. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2524-2530	3.8	11
182	Electronic Properties of Graphite with Rotational Stacking Arrangement. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 050207	1.4	11
181	Scanning tunneling microscopy images of argon monolayer on a monolayer graphite surface. <i>Chemical Physics Letters</i> , 2003 , 371, 528-533	2.5	11
180	Influence of defects on carrier injection in carbon nanotubes with defects. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 065101	1.4	10
179	Different Molecular Arrangement of Perylene in Metallic and Semiconducting Carbon Nanotubes: Impact of van der Waals Interaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5805-5812	3.8	10
178	Electron-state engineering of bilayer graphene by ionic molecules. <i>Applied Physics Letters</i> , 2012 , 101, 233106	3.4	10
177	Anomalous Electric-Field Screening at the Edge Atomic Sites of Finite-Length Zigzag Carbon Nanotubes. <i>Applied Physics Express</i> , 2013 , 6, 045101	2.4	10
176	Topologically induced surface electron state on Si(1 1 1) surfaces. <i>Surface Science</i> , 2008 , 602, 2876-2879	1.8	10
175	Ambipolar transistors based on random networks of WS ₂ nanotubes. <i>Applied Physics Express</i> , 2016 , 9, 075001	2.4	10
174	Confinement Effect of Sub-nanometer Difference on Melting Point of Ice-Nanotubes Measured by Photoluminescence Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 1177-1182	16.7	9
173	Two-dimensional sp ² carbon networks of fused pentagons. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 06JD02	1.4	9
172	Energetics and electronic structure of semiconducting single-walled carbon nanotubes adsorbed on metal surfaces. <i>Physical Review B</i> , 2011 , 84,	3.3	9
171	Suppression of exciton-electron scattering in doped single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 109, 187403	7.4	9
170	Metallic phase in the metal-intercalated higher fullerene Rb _{8.8(7)} C ₈₄ . <i>Physical Review B</i> , 2005 , 71,	3.3	9
169	Stable polymers of C ₇₄ and C ₇₈ fullerenes. <i>Chemical Physics Letters</i> , 2000 , 321, 156-162	2.5	9

168	Electrostatic properties of fullerenes under an external electric field: First-principles calculations of energetics for all IPR isomers from C60 to C78. <i>Chemical Physics Letters</i> , 2016 , 659, 1-5	2.5	8
167	Influence of electric field on electronic states of graphene nanoribbons under a FET structure. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 035101	1.4	8
166	Time-of-flight detector applied to mass measurements in Rare-Rf Ring. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 640-643	1.2	8
165	Electrically induced ambipolar spin vanishments in carbon nanotubes. <i>Scientific Reports</i> , 2015 , 5, 11859	4.9	8
164	Weak Response of Metallic Single-Walled Carbon Nanotubes to C60 Encapsulation Studied by Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23844-23850	3.8	8
163	Enhanced photocurrent in single-walled carbon nanotubes by exciton interactions. <i>Applied Physics Letters</i> , 2013 , 102, 113110	3.4	8
162	Two-Dimensional Metallic Molecular Sheet of Fused C26 Fullerene. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 043708	1.5	8
161	Asymmetrical Electronic Structure of Folded Graphene. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 033702	1.5	8
160	Formation of titanium-carbide in a nanospace of C78 fullerenes. <i>Chemical Physics Letters</i> , 2007 , 438, 274-278	2.7	8
159	First-principles calculation for scanning-tunneling-microscopy images of Kr adsorbed on a monolayer graphite surface. <i>Physical Review B</i> , 2003 , 67,	3.3	8
158	Geometries and electronic structure of extractable C90 fullerenes. <i>Chemical Physics Letters</i> , 1995 , 247, 69-78	2.5	8
157	Field emission properties of edge-functionalized graphene. <i>Carbon</i> , 2019 , 142, 190-195	10.4	8
156	Edge morphology effect on field emission properties of graphene thin films. <i>Carbon</i> , 2020 , 157, 33-39	10.4	8
155	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. <i>Nano Letters</i> , 2021 , 21, 243-249	11.5	8
154	Influence of defects on the electronic structures of bilayer graphene. <i>Surface Science</i> , 2016 , 644, 18-23	1.8	7
153	Polarity control of h-BN nanoribbon edges by strain and edge termination. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9113-9117	3.6	7
152	Asymmetric carrier accumulation in van der Waals heterostructures of MoS2/WS2 under an external electric field. <i>Applied Physics Express</i> , 2019 , 12, 075008	2.4	7
151	Ultrafast Charge Transfer and Relaxation Dynamics in Polymer-Encapsulating Single-Walled Carbon Nanotubes: Polythiophene and Coronene Polymer. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16940-16949	3.8	7

150	Energetics and Electronic Structures of C60Included Within [n]Cyclacene Molecules. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 094717	1.5	7
149	Growth mechanism of single-walled carbon nanotube from catalytic reaction inside carbon nanotube template. <i>ACS Nano</i> , 2010 , 4, 4769-75	16.7	7
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