

# Sususmu Okada

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

311  
papers

6,617  
citations

42  
h-index

70  
g-index

327  
ext. papers

7,360  
ext. citations

4.5  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
311	Geometric and Electronic Structures of Spiro-graphene Comprising Fused Pentagons and Octagons. <i>Journal of the Physical Society of Japan</i> , <b>2022</b> , 91,	1.5	1
310	A two-dimensional magnetic carbon allotrope of hexagonally arranged fused pentagons. <i>Applied Physics Express</i> , <b>2022</b> , 15, 035001	2.4	
309	Magnon-Coupled Intralayer Moiré Trion in Monolayer Semiconductor-Antiferromagnet Heterostructures.. <i>Advanced Materials</i> , <b>2022</b> , e2200301	24	1
308	Science of 2.5 dimensional materials: paradigm shift of materials science toward future social innovation.. <i>Science and Technology of Advanced Materials</i> , <b>2022</b> , 23, 275-299	7.1	4
307	All carbon p-n border in bilayer graphene by the molecular orientation of intercalated corannulene. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 134303	2.5	0
306	Electronic properties of diamond nanowires under an external electric field. <i>Diamond and Related Materials</i> , <b>2022</b> , 125, 109029	3.5	0
305	Versatile Post-Doping toward Two-Dimensional Semiconductors. <i>ACS Nano</i> , <b>2021</b> ,	16.7	4
304	Carrier Redistribution in van der Waals Nanostructures Consisting of Bilayer Graphene and Buckybowl: Implications for Piezoelectric Devices. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 3007-3012	5.6	2
303	Photoluminescence from Single-Walled MoS Nanotubes Coaxially Grown on Boron Nitride Nanotubes. <i>ACS Nano</i> , <b>2021</b> , 15, 8418-8426	16.7	14
302	Indirect-to-direct band gap crossover of single walled MoS2 nanotubes. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 065002	1.4	0
301	Chemical stability of hydrogen boride nanosheets in water. <i>Communications Materials</i> , <b>2021</b> , 2,	6	2
300	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. <i>Nano Letters</i> , <b>2021</b> , 21, 243-249	11.5	8
299	Carrier distribution control in bilayer graphene under a perpendicular electric field by interlayer stacking arrangements. <i>Applied Physics Express</i> , <b>2021</b> , 14, 035001	2.4	2
298	Dynamics of a charged Ne atom near graphene edges under a positive static electric field. <i>FlatChem</i> , <b>2021</b> , 28, 100265	5.1	
297	Electronic structure of a borophene layer in rare-earth aluminum/chromium boride and its hydrogenated derivative borophane. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
296	Geometric structure and piezoelectric polarization of MoS2 nanoribbons under uniaxial strain. <i>FlatChem</i> , <b>2021</b> , 29, 100289	5.1	0
295	Spiro-graphene: A two-dimensional metallic carbon allotrope of fused pentagons. <i>Carbon</i> , <b>2021</b> , 185, 404-409	10.4	2

294	Modulation of intertube band dispersion relation of carbon nanotube bundles by symmetry and intertube wave function coupling. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 025002	1.4	1
293	Microscopic Mechanism of Van der Waals Heteroepitaxy in the Formation of MoS/hBN Vertical Heterostructures. <i>ACS Omega</i> , <b>2020</b> , 5, 31692-31699	3.9	3
292	Influence of interlayer stacking arrangements on carrier accumulation in bilayer graphene field effect transistors. <i>Applied Physics Express</i> , <b>2020</b> , 13, 065006	2.4	3
291	Pentadiamond: A Hard Carbon Allotrope of a Pentagonal Network of $sp^2$ and $sp^3$ C Atoms. <i>Physical Review Letters</i> , <b>2020</b> , 125, 016001	7.4	14
290	One-dimensional van der Waals heterostructures. <i>Science</i> , <b>2020</b> , 367, 537-542	33.3	119
289	Structural effects on carrier doping in carbon nanotube thin-film transistors. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 134301	2.5	2
288	Influence of Interlayer Stacking on Gate-Induced Carrier Accumulation in Bilayer MoS <sub>2</sub> . <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1352-1357	4	6
287	Mechanical properties of carbon nanotube under uniaxial tensile strain. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SIID02	1.4	0
286	Electronic structure of graphene under periodic uniaxial tensile strain. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 075002	1.4	
285	Asymptotic behavior of the energetics and electronic structures of graphene with pyridinic defects. <i>Chemical Physics Letters</i> , <b>2020</b> , 739, 136966	2.5	1
284	Energetics and electronic structures of single walled carbon nanotubes encapsulated in boron nitride nanotubes. <i>Applied Physics Express</i> , <b>2020</b> , 13, 015004	2.4	4
283	Asymmetric carrier penetration into hexagonal boron nitride in graphene field-effect transistors. <i>Applied Physics Express</i> , <b>2020</b> , 13, 075005	2.4	
282	Carrier Distribution Control in van der Waals Heterostructures of MoS <sub>2</sub> and WS <sub>2</sub> by Field-Induced Band-Edge Engineering. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
281	Excitation Energy Transfer by Electron Exchange via Two-Step Electron Transfer between a Single-Walled Carbon Nanotube and Encapsulated Magnesium Porphyrin. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19406-19412	3.8	2
280	Edge morphology effect on field emission properties of graphene thin films. <i>Carbon</i> , <b>2020</b> , 157, 33-39	10.4	8
279	Electronic structure of thin films of hydrocarbon molecules under an external electric field. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 075001	1.4	
278	Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. <i>APL Materials</i> , <b>2019</b> , 7, 101103	5.7	5
277	Confinement Effect of Sub-nanometer Difference on Melting Point of Ice-Nanotubes Measured by Photoluminescence Spectroscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 1177-1182	16.7	9

276	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> , <b>2019</b> , 3,	8.8	16
275	Asymmetric carrier accumulation in van der Waals heterostructures of MoS <sub>2</sub> /WS <sub>2</sub> under an external electric field. <i>Applied Physics Express</i> , <b>2019</b> , 12, 075008	2.4	7
274	Continuous Heteroepitaxy of Two-Dimensional Heterostructures Based on Layered Chalcogenides. <i>ACS Nano</i> , <b>2019</b> , 13, 7527-7535	16.7	33
273	Energetics and electronic structures of MoS <sub>2</sub> nanoribbons. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 075002	1.4	1
272	Physics of Carbon Nanotubes and New Type of Carbon Network Materials: Electronic and Magnetic Properties <b>2019</b> , 97-120		
271	Catalyst-Selective Growth of Single-Orientation Hexagonal Boron Nitride toward High-Performance Atomically Thin Electric Barriers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900880	24	13
270	A novel graphene barrier against moisture by multiple stacking large-grain graphene. <i>Scientific Reports</i> , <b>2019</b> , 9, 3777	4.9	11
269	Energetics and electronic structures of borders between MoS <sub>2</sub> and WS <sub>2</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 095002	1.4	
268	Energetics and electronic structure of graphene nanoribbons under uniaxial torsional strain. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SDD05	1.4	
267	Three-dimensional covalent networks of sp <sup>2</sup> and sp <sup>3</sup> C atoms: energetics and electronic properties of polymerized diphenylmethane and tetraphenylmethane. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 085001	1.4	4
266	Chemically Tuned p- and n-Type WSe Monolayers with High Carrier Mobility for Advanced Electronics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903613	24	56
265	Chemical Doping: Chemically Tuned p- and n-Type WSe <sub>2</sub> Monolayers with High Carrier Mobility for Advanced Electronics (Adv. Mater. 42/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970301	24	2
264	Vapor Phase Selective Growth of Two-Dimensional Perovskite/WS Heterostructures for Optoelectronic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40503-40511	9.5	22
263	Experimental Evidence of Anisotropic and Stable Charged Excitons (Trions) in Atomically Thin 2D ReS <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905961	15.6	12
262	Photoinduced hydrogen release from hydrogen boride sheets. <i>Nature Communications</i> , <b>2019</b> , 10, 4880	17.4	38
261	Semimetallicity of free-standing hydrogenated monolayer boron from MgB <sub>2</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	15
260	Flat bands and higher-order topology in polymerized triptycene: Tight-binding analysis on decorated star lattices. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	12
259	Energetics and electronic structures of N-doped graphene nanoribbons with pyridinic and graphitic edges. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 125001	1.4	

258	Direct and Indirect Exciton Dynamics in Few-Layered ReS <sub>2</sub> Revealed by Photoluminescence and Pump-Probe Spectroscopy. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806169	15.6	30
257	Site-dependence of relationships between photoluminescence and applied electric field in monolayer and bilayer molybdenum disulfide. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 015001	1.4	1
256	Field emission properties of edge-functionalized graphene. <i>Carbon</i> , <b>2019</b> , 142, 190-195	10.4	8
255	Energetics and electronic structures of polymeric all-benzene hollow-cages and planar networks. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 015002	1.4	
254	Electrostatic properties of graphene edges for electron emission under an external electric field. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 163105	3.4	2
253	Molecular Arrangements of Corannulene and Sumanene in Single-Walled Carbon Nanotubes. <i>ChemNanoMat</i> , <b>2018</b> , 4, 557-561	3.5	5
252	Mechanical properties of graphene nanoribbons under uniaxial tensile strain. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 035101	1.4	2
251	Carrier Transport and Photoresponse in GeSe/MoS Heterojunction p-n Diodes. <i>Small</i> , <b>2018</b> , 14, e1704559	1	23
250	Electronic Structure of Two-Dimensional Hydrocarbon Networks of sp <sup>2</sup> and sp <sup>3</sup> C Atoms. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 034704	1.5	5
249	Different Molecular Arrangement of Perylene in Metallic and Semiconducting Carbon Nanotubes: Impact of van der Waals Interaction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5805-5812	3.8	10
248	Band-Gap Engineering of Graphene Heterostructures by Substitutional Doping with B N. <i>ChemPhysChem</i> , <b>2018</b> , 19, 237-242	3.2	6
247	Ultrafast Charge Transfer and Relaxation Dynamics in Polymer-Encapsulating Single-Walled Carbon Nanotubes: Polythiophene and Coronene Polymer. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 16940-16949	3.8	7
246	Efficient Photocarrier Transfer and Effective Photoluminescence Enhancement in Type I Monolayer MoTe <sub>2</sub> /WSe <sub>2</sub> Heterostructure. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801021	15.6	45
245	Electronic structure and cohesive energy of silylmethyl fullerene and methanoindene fullerene solids. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 085102	1.4	
244	Energetics and electronic structures of perylene confined in carbon nanotubes. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180359	3.3	2
243	Moisture barrier properties of single-layer graphene deposited on Cu films for Cu metallization. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FC08	1.4	5
242	Hydrogen-Assisted Epitaxial Growth of Monolayer Tungsten Disulfide and Seamless Grain Stitching. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 403-411	9.6	38
241	Geometric and electronic structures of a two-dimensional covalent network of sp <sup>2</sup> and sp <sup>3</sup> carbon atoms. <i>Diamond and Related Materials</i> , <b>2018</b> , 81, 103-107	3.5	4

240	Energetics and electronic structures of chemically decorated C60 chains. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 06HB02	1.4	0
239	Energetics and electronic structures of corrugated graphene nanoribbons. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 085101	1.4	1
238	van der Waals interaction-induced photoluminescence weakening and multilayer growth in epitaxially aligned WS. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29790-29797	3.6	4
237	Geometric and electronic structures of two-dimensionally polymerized triptycene: covalent honeycomb networks comprising triptycene and polyphenyl. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 125203	1.4	6
236	Energetics and Electronic Structure of Triangular Hexagonal Boron Nitride Nanoflakes. <i>Scientific Reports</i> , <b>2018</b> , 8, 16657	4.9	19
235	Surface-Mediated Aligned Growth of Monolayer MoS and In-Plane Heterostructures with Graphene on Sapphire. <i>ACS Nano</i> , <b>2018</b> , 12, 10032-10044	16.7	42
234	Solvent-Mediated Shape Engineering of Fullerene (C60) Polyhedral Microcrystals. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7146-7153	9.6	30
233	Energetics and formation mechanism of borders between hexagonal boron nitride and graphene. <i>Applied Physics Express</i> , <b>2018</b> , 11, 065201	2.4	3
232	Field-induced structural control of COx molecules adsorbed on graphene. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 174302	2.5	0
231	Energetics of edge oxidization of graphene nanoribbons. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 06HB03	1.4	
230	Fermi-level pinning of bilayer graphene with defects under an external electric field. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 011601	3.4	6
229	Polarity control of h-BN nanoribbon edges by strain and edge termination. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 9113-9117	3.6	7
228	Electrostatic potential barrier for electron emission at graphene edges induced by the nearly free electron states. <i>Applied Physics Express</i> , <b>2017</b> , 10, 055104	2.4	5
227	Electronic properties of electron-doped [6,6]-phenyl-C61-butyric acid methyl ester and silylmethylfullerene. <i>Chemical Physics Letters</i> , <b>2017</b> , 678, 5-8	2.5	1
226	Investigations of charge-changing processes for light proton-rich nuclei on carbon and solid-hydrogen targets. <i>Nuclear Physics A</i> , <b>2017</b> , 961, 142-153	1.3	3
225	Suppression of conductivity deterioration of copper thin films by coating with atomic-layer materials. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 131601	3.4	16
224	Polarization modulation of nanotrenches in GaN (0001)/ $\bar{1}$ by surface hydrogenation. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 111002	1.4	1
223	Energetics and electronic structures of thin films and heterostructures of a hexagonal GaN sheet. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 065201	1.4	3

222	Electronic structure of bilayer graphene with defects under an external electric field. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GE01	1.4	1
221	Strain-induced charge transfer and polarity control of a heterosheet comprising C60 and graphene. <i>Applied Physics Express</i> , <b>2017</b> , 10, 095101	2.4	5
220	Formation and Characterization of Hydrogen Boride Sheets Derived from MgB by Cation Exchange. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13761-13769	16.4	104
219	Highly Conductive and Transparent Large-Area Bilayer Graphene Realized by MoCl Intercalation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702141	24	34
218	Electronic structure and electric polarity of edge-functionalized graphene nanoribbons. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 085103	1.4	5
217	Modulation of the Local Density of States of Carbon Nanotubes by Encapsulation of Europium Nanowires As Observed by Scanning Tunneling Microscopy and Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18195-18201	3.8	2
216	Magnetic properties of two-dimensional hydrocarbon networks of sp <sup>2</sup> and sp <sup>3</sup> C atoms. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6
215	Energetics and electronic structure of nanoscale rotors consisting of triptycene and hydrocarbon molecules. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 105201	1.4	1
214	Carrier injection in nonbonding $\pi$ states of N-doped graphene by an external electric field. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 075101	1.4	1
213	Out-of-Plane Strain Induced in a Moiré Superstructure of Monolayer MoS and MoSe on Au(111). <i>Small</i> , <b>2017</b> , 13, 1700748	11	11
212	Geometric structures of Al nanoparticles adsorbed on graphene under an external electric field. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 125101	1.4	1
211	Porous hydrocarbon networks of pyramidal molecules. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GE03	1.4	
210	Effect of charged metal nanoparticles on carrier injection in graphene by an external electric field. <i>Applied Physics Express</i> , <b>2017</b> , 10, 025101	2.4	4
209	Energetics and Electronic Structures of Inclusion Compounds of Large Fullerenes and Cycloparaphenylenes. <i>Journal of the Physical Society of Japan</i> , <b>2017</b> , 86, 104702	1.5	
208	Interplay between the Kagome flat band and the Dirac cone in porous graphitic networks. <i>Carbon</i> , <b>2017</b> , 125, 530-535	10.4	19
207	Asymmetric carrier accumulation in double-walled carbon nanotube by an external electric field. <i>Applied Physics Express</i> , <b>2017</b> , 10, 075101	2.4	1
206	Electronic structure of carbon nanotube thin films with nanoscale interfaces under an electric field. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GE02	1.4	1
205	Influence of defects on the electronic structures of bilayer graphene. <i>Surface Science</i> , <b>2016</b> , 644, 18-23	1.8	7

204	Energetics and Electronic Structure of h-BN Nanoflakes. <i>Scientific Reports</i> , <b>2016</b> , 6, 30653	4.9	23
203	Theoretical Investigation on Electronic and Magnetic Structures of FeRh. <i>Journal of the Magnetics Society of Japan</i> , <b>2016</b> , 40, 77-80	0.7	3
202	Energetics of H <sub>2</sub> O encapsulated in fullerenes under an electric field. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 04EP02	1.4	1
201	Energetics and electronic structure of tubular Si vacancies filled with carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 055101	1.4	1
200	Electronic properties of pentaorgano[60]fullerenes under an external electric field. <i>Applied Physics Express</i> , <b>2016</b> , 9, 115103	2.4	2
199	Highly Uniform Bilayer Graphene on Epitaxial CuNi(111) Alloy. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4583-4592	26	75
198	Electrostatic properties of fullerenes under an external electric field: First-principles calculations of energetics for all IPR isomers from C <sub>60</sub> to C <sub>78</sub> . <i>Chemical Physics Letters</i> , <b>2016</b> , 659, 1-5	2.5	8
197	Gate-Tunable Dirac Point of Molecular Doped Graphene. <i>ACS Nano</i> , <b>2016</b> , 10, 2930-9	16.7	38
196	Energetics and electronic structure of graphene nanoribbons under a lateral electric field. <i>Carbon</i> , <b>2016</b> , 96, 351-361	10.4	29
195	Geometric and electronic structures of corannulene polymers: Ultra narrow graphene ribbons with corrugation and topological defects. <i>Chemical Physics Letters</i> , <b>2016</b> , 650, 76-81	2.5	4
194	Influence of electric field on electronic states of graphene nanoribbons under a FET structure. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 035101	1.4	8
193	Magnetic Properties of Graphene Quantum Dots Embedded in h-BN Sheet. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 1293-1302	3.8	29
192	Geometric and electronic structures of one-dimensionally polymerized coronene molecules. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 06GF02	1.4	2
191	Effect of an intersection of carbon nanotubes on the carrier accumulation under an external electric field. <i>Applied Physics Express</i> , <b>2016</b> , 9, 085103	2.4	5
190	Electronic structure modulation of graphene edges by chemical functionalization. <i>Applied Physics Express</i> , <b>2016</b> , 9, 115102	2.4	13
189	Electron-state tuning of multilayer graphene by defects. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 06GF06	1.4	2
188	Ambipolar transistors based on random networks of WS <sub>2</sub> nanotubes. <i>Applied Physics Express</i> , <b>2016</b> , 9, 075001	2.4	10
187	Electronic transport properties of graphene channel with metal electrodes or insulating substrates in 10 nm-scale devices. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 154301	2.5	3



186	Anomalous electrostatic potential properties in carbon nanotube thin films under a weak external electric field. <i>Applied Physics Express</i> , <b>2016</b> , 9, 045101	2.4	4
185	Effect of structural deformation on carrier accumulation in semiconducting carbon nanotubes under an external electric field. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 045101	1.4	14
184	Coexistence of Dirac cones and Kagome flat bands in a porous graphene. <i>Carbon</i> , <b>2016</b> , 109, 755-763	10.4	36
183	Na-ion diffusion in a NASICON-type solid electrolyte: a density functional study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 27226-27231	3.6	23
182	Polar properties of a hexagonally bonded GaN sheet under biaxial compression. <i>Applied Physics Express</i> , <b>2016</b> , 9, 095201	2.4	13
181	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	45
180	Nanoporous Carbon Tubes from Fullerene Crystals as the Electron Carbon Source. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 965-969	3.6	14
179	Dispersion of carbon nanotubes in organic solvent by commercial polymers with ethylene chains: Experimental and theoretical studies. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 035101	1.4	6
178	Nano-Saturn: Energetics of the Inclusion Process of C60 into Cyclohexabiphenylene. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 8931-8936	3.8	13
177	Fabrication and optical probing of highly extended, ultrathin graphene nanoribbons in carbon nanotubes. <i>ACS Nano</i> , <b>2015</b> , 9, 5034-40	16.7	29
176	Nano-Saturn: Theoretical design of new C60inclusion compounds. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 06FF01	1.4	6
175	Tuning localized transverse surface plasmon resonance in electricity-selected single-wall carbon nanotubes by electrochemical doping. <i>Physical Review Letters</i> , <b>2015</b> , 114, 176807	7.4	26
174	Hybrid functional study of the NASICON-type Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> : crystal and electronic structures, and polaron-Na vacancy complex diffusion. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 30433-9	3.6	61
173	Mechanically activated switching of Si-based single-molecule junction as imaged with three-dimensional dynamic probe. <i>Nature Communications</i> , <b>2015</b> , 6, 8465	17.4	12
172	Geometric and Electronic Structures of Two-Dimensional Networks of Fused C36 Fullerenes. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 084706	1.5	12
171	Influence of defects on carrier injection in carbon nanotubes with defects. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 065101	1.4	10
170	Geometric and electronic structures of polymerized C32 fullerenes: Electronic structure tuning by fullerene and carbon nanotube filling. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 06FF02	1.4	5
169	Spin-state tuning of decamethyl C60by an electric field: First-principles studies on electronic structure. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 06FF09	1.4	

168	Nanoporous carbon tubes from fullerene crystals as the electron carbon source. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 951-5	16.4	96
167	Radical spin interaction in one-dimensional chains of decamethyl C60. <i>Chemical Physics Letters</i> , <b>2015</b> , 634, 129-133	2.5	
166	Electrically induced ambipolar spin vanishments in carbon nanotubes. <i>Scientific Reports</i> , <b>2015</b> , 5, 11859	4.9	8
165	Observation of Landau levels on nitrogen-doped flat graphite surfaces without external magnetic fields. <i>Scientific Reports</i> , <b>2015</b> , 5, 16412	4.9	29
164	Electronic Transport Properties of Graphene Channel between Au Electrodes. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2015</b> , 13, 54-58	0.7	3
163	Threshold voltage variation for charge accumulation in carbon nanotube owing to monatomic defect arrangement. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 06FF04	1.4	
162	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 436-42	28.7	185
161	An anomalous dipole-dipole arrangement of water molecules encapsulated into C60 dimer. <i>Chemical Physics Letters</i> , <b>2014</b> , 608, 351-354	2.5	5
160	Spin-state tuning of decamethyl C60 by an electric field. <i>Chemical Physics Letters</i> , <b>2014</b> , 614, 10-14	2.5	5
159	Gate-induced electron-state tuning of MoS2: first-principles calculations. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 135001	1.8	24
158	Cherenkov light detection as a velocity selector for uranium fission products at intermediate energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 766, 123-125	1.2	6
157	Latex Polymer/Super Growth-Single-Walled Carbon Nanotube Composites with High Electroconductivity Fabricated by Wet Processing. <i>Bulletin of the Chemical Society of Japan</i> , <b>2014</b> , 87, 1343-1348	5.1	2
156	Theoretical Aspects of Graphene Related Materials for Device Applications. <i>Journal of the Vacuum Society of Japan</i> , <b>2014</b> , 57, 439-443		
155	Flexible Metallic Nanowires with Self-Adaptive Contacts to Semiconducting Transition-Metal Dichalcogenide Monolayers. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1760-1761	0.5	1
154	Charge-changing interactions probing point-proton radii of nuclei. <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 03099	0.3	0
153	Electron injection into nearly free electron states of graphene nanoribbons under a lateral electric field. <i>Applied Physics Express</i> , <b>2014</b> , 7, 125103	2.4	14
152	Electronic structures of carbon nanotubes with monovacancy under an electric field. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 115102	1.4	2
151	Energetics and Electronic Structures of Carbon Nanotubes Encapsulating Polycyclic Aromatic Hydrocarbon Molecules. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 124709	1.5	16

150	Two-dimensional sp <sup>2</sup> carbon networks of fused pentagons. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 06JD02	1.4	9
149	Effect of Coulomb interactions on optical properties of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	28
148	Structural dependence of electronic properties of graphene nanoribbons on an electric field. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 06JD05	1.4	5
147	Energetics and electronic structures of polymerized cyclobutadiene. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 035103	1.4	3
146	Energetics and electronic structures of C <sub>60</sub> included within [n]cyclacene molecules: Formation processes and dynamical property of C <sub>60</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 06JD06	1.4	4
145	Absence of edge states near the 120° corners of zigzag graphene nanoribbons. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	13
144	Enhanced chemical reactivity of graphene induced by mechanical strain. <i>ACS Nano</i> , <b>2013</b> , 7, 10335-43	16.7	130
143	Design of new carbon allotropes of fused small fullerenes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 1620-1623		6
142	Two-Dimensional sp <sup>2</sup> Carbon Network of Fused Pentagons: All Carbon Ferromagnetic Sheet. <i>Applied Physics Express</i> , <b>2013</b> , 6, 095101	2.4	45
141	Time-of-flight detector applied to mass measurements in Rare-Rf Ring. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 317, 640-643	1.2	8
140	Charge manipulation in molecules encapsulated inside single-wall carbon nanotubes. <i>Physical Review Letters</i> , <b>2013</b> , 110, 086801	7.4	16
139	Enhanced photocurrent in single-walled carbon nanotubes by exciton interactions. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 113110	3.4	8
138	Development of rotating magnetic field system for the ENMR method. <i>Hyperfine Interactions</i> , <b>2013</b> , 220, 65-69	0.8	3
137	Effects of Plasma Irradiation in Arsenic Plasma Doping Using Overhang Test Structures. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 021301	1.4	2
136	Two-Dimensional Metallic Molecular Sheet of Fused C <sub>26</sub> Fullerene. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 043708	1.5	8
135	Energetics and Electronic Structures of Alkanes and Polyethylene Adsorbed on Graphene. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 06GD10	1.4	5
134	Electronic Properties of Capped Carbon Nanotubes under an Electric Field: Inhomogeneous Electric-Field Screening Induced by Bond Alternation. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 06GD04	1.4	4
133	High-Efficiency Photoelectric Conversion in GrapheneDiamond Hybrid Structures: Model and First-Principles Calculations. <i>Applied Physics Express</i> , <b>2013</b> , 6, 045104	2.4	5

132	Magnetic Properties of Decamethyl Fullerenes: Radical Spin Interactions in Chemically Functionalized Fullerenes. <i>Applied Physics Express</i> , <b>2013</b> , 6, 045102	2.4	12
131	Energetics and Electronic Structures of Alkanes Adsorbed on Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 04CN07	1.4	6
130	Energetics and Electronic Structures of C60 Included Within [n]Cyclacene Molecules. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 094717	1.5	7
129	Electrostatic potential of hydrogenated finite-length carbon nanotubes under an electric field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 1624-1627		2
128	Anomalous Electric-Field Screening at the Edge Atomic Sites of Finite-Length Zigzag Carbon Nanotubes. <i>Applied Physics Express</i> , <b>2013</b> , 6, 045101	2.4	10
127	Massless Electrons on Hexagonal Dangling Bond Network on Hydrogen Deposited Diamond (111) and Si(111) Surfaces. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 064706	1.5	1
126	Design of $\pi$ -electron network in graphene using atomic Pt adsorbates. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 777-780	3.9	
125	Geometries and Electronic Structures of Diamond Nanoparticles. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 015001	1.4	1
124	Electron-state engineering of bilayer graphene by ionic molecules. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 233106	3.4	10
123	Observation of Landau levels in potassium-intercalated graphite under a zero magnetic field. <i>Nature Communications</i> , <b>2012</b> , 3, 1068	17.4	35
122	Electronic Structure of Corrugated Graphene Sheet. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BN05	0.5	1
121	Magnetic-state tuning of the rhombohedral graphite film by interlayer spacing and thickness. <i>Surface Science</i> , <b>2012</b> , 606, 253-257	1.8	5
120	Electronic Properties of Carbon Nanotubes under an Electric Field. <i>Applied Physics Express</i> , <b>2012</b> , 5, 095101	1.1	17
119	Weak Response of Metallic Single-Walled Carbon Nanotubes to C60 Encapsulation Studied by Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 23844-23850	3.8	8
118	Multiple exciton generation by a single photon in single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2012</b> , 108, 227401	7.4	20
117	Nonlinear optical responses induced by Auger ionization in single-walled carbon nanotubes. <i>New Journal of Physics</i> , <b>2012</b> , 14, 023053	2.9	4
116	Tunable Magnetic Properties of Rhombohedral Graphite Thin Films: Effects of Insulating Substrate on Magnetic Properties. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BN04	1.4	
115	Electronic Structure Modulation of Graphene by Metal Electrodes. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 085102	1.4	2

114	Elemental Semiconductors of Fused Small Fullerenes: Electronic and Geometric Structures of C <sub>28</sub> Polymers. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 114719	1.5	7
113	Graphene-diamond hybrid structure as spin-polarized conducting wire with thermally efficient heat sinks. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 233101	3.4	12
112	Suppression of exciton-electron scattering in doped single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2012</b> , 109, 187403	7.4	9
111	Robustness and Fragility of a Linear Dispersion Band of Bilayer Graphene under an Electric Field. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 113702	1.5	15
110	Electronic Structure of Corrugated Graphene Sheet. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BN05		7
109	Electronic Structure Modulation of Graphene by Metal Electrodes. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 085102	1.4	7
108	Modulation of Electron-States of Graphite Thin Films by the Nearly Free Electron States of Metal Surfaces. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 100203	1.4	2
107	Geometries and Electronic Structures of Diamond Nanoparticles. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 015001	1.4	
106	Tunable Magnetic Properties of Rhombohedral Graphite Thin Films: Effects of Insulating Substrate on Magnetic Properties. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BN04	1.4	
105	Semiconducting electronic property of graphene adsorbed on (0001) surfaces of SiO <sub>2</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 106, 106801	7.4	159
104	Gate-controlled carrier injection into hexagonal boron nitride. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	18
103	Energetics and electronic structure of semiconducting single-walled carbon nanotubes adsorbed on metal surfaces. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
102	Energetics and electronic structure of encapsulated single-stranded DNA in carbon nanotubes. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	18
101	Electronic structure of single-walled carbon nanotube on metal surfaces by first principles calculations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 564-566		4
100	Coaxially Stacked Coronene Columns inside Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4955-4959	3.6	17
99	Coaxially stacked coronene columns inside single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4853-7	16.4	87
98	Electronic Structure of Graphene with a Topological Line Defect. <i>Journal of the Physical Society of Japan</i> , <b>2011</b> , 80, 013709	1.5	55
97	Two-Dimensionally Polymerized Coronene: A Metallic Sheet of sp <sup>2</sup> C Atoms. <i>Journal of the Physical Society of Japan</i> , <b>2011</b> , 80, 123704	1.5	

96	Energetics and electronic structure of graphene adsorbed on HfO <sub>2</sub> (111): Density functional theory calculations. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	60
95	Method for probing the magnetic state of nanomaterials encapsulated in carbon nanotubes. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 073109	3.4	4
94	Origin of the n-type transport behavior of azafullerene encapsulated single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053105	3.4	4
93	Effects of localized spins on excitons in single-walled carbon nanotubes with imperfections. <i>New Journal of Physics</i> , <b>2011</b> , 13, 083028	2.9	2
92	Field-Induced Free-Electron Carriers in Graphite. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 073701	1.5	32
91	Intrinsic magnetic moment on (0001) surfaces of rhombohedral graphite. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	52
90	Stability and electronic structure of potassium-intercalated hexagonal boron nitride from density functional calculations. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	12
89	Phase control of magnetic state of graphite thin films by electric field. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 242504	3.4	26
88	The Optical Properties of Single-Walled Carbon Nanotubes in the Ultraviolet Region. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 02BB01	1.4	
87	Asymmetrical Electronic Structure of Folded Graphene. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 033702	1.5	8
86	Edge States and Flat Bands of Graphene Nanoribbons with Edge Modification. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 034706	1.5	42
85	Formation of Multi-Walled Nanotubes from Diamond Nanowires. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 02BB02	1.4	2
84	Energetics and Electronic Structure of Ultimate Silicon Nanowire Confined in Nanospace. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 065001	1.4	2
83	Influence of disorder on conductance in bilayer graphene under perpendicular electric field. <i>Nano Letters</i> , <b>2010</b> , 10, 3888-92	11.5	106
82	Influence of Aromatic Environments on the Physical Properties of $\beta$ -Carotene. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2524-2530	3.8	11
81	Electronic structures of single-walled carbon nanotubes encapsulating ellipsoidal C <sub>70</sub> . <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15252-8	16.4	35
80	Growth mechanism of single-walled carbon nanotube from catalytic reaction inside carbon nanotube template. <i>ACS Nano</i> , <b>2010</b> , 4, 4769-75	16.7	7
79	Interaction between single-wall carbon nanotubes and encapsulated C <sub>60</sub> probed by resonance Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 8118-22	3.6	14

78	Energetics and Electronic Structure of Na-Doped Rhombohedral C60 Polymers. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 084702	1.5	
77	Semiconducting Electronic Structure of Graphene Adsorbed on Insulating Substrate: Fragility of the Graphene Linear Dispersion Band. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 020204	1.4	15
76	A massively-parallel electronic-structure calculations based on real-space density functional theory. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 2339-2363	4.1	92
75	Host-guest interaction between single-wall carbon nanotubes and encapsulated C60 probed by resonance Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2700-2702	1.3	3
74	Formation of nonbonding $\pi$ -electronic states of graphite due to Pt-C hybridization. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	30
73	Electronic properties of a carbon nanotube in a field-effect transistor structure: A first-principles study. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	6
72	Theoretical calculation for the ultraviolet optical properties of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	27
71	Self-redirection of tearing edges in graphene: Tight-binding molecular dynamics simulations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	17
70	Substrate-mediated interactions of Pt atoms adsorbed on single-wall carbon nanotubes: Density functional calculations. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	18
69	Effect of fullerene encapsulation on radial vibrational breathing-mode frequencies of single-wall carbon nanotubes. <i>Physical Review Letters</i> , <b>2009</b> , 103, 027403	7.4	27
68	Electronic Properties of Graphite with Rotational Stacking Arrangement. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 050207	1.4	11
67	Energetics and electronic structure of semiconducting nanotubes adsorbed on . <i>Chemical Physics Letters</i> , <b>2009</b> , 474, 302-306	2.5	7
66	Formation of graphene nanostructures on diamond nanowire surfaces. <i>Chemical Physics Letters</i> , <b>2009</b> , 483, 128-132	2.5	15
65	Intrinsic dipole moment on the capped carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	7
64	Phase control of graphene nanoribbon by carrier doping: appearance of noncollinear magnetism. <i>Nano Letters</i> , <b>2009</b> , 9, 269-72	11.5	83
63	Diameter-Dependent Band Gap Modification of Single-Walled Carbon Nanotubes by Encapsulated Fullerenes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 571-575	3.8	42
62	Atomic configurations and energetics of vacancies in hexagonal boron nitride: First-principles total-energy calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	63
61	Energetics of nanoscale graphene ribbons: Edge geometries and electronic structures. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	119

60	Optical band gap modification of single-walled carbon nanotubes by encapsulated fullerenes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4122-8	16.4	73
59	Energetics of carbon peapods: Elliptical deformation of nanotubes and aggregation of encapsulated C60. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	20
58	Topologically induced surface electron state on Si(1 1 1) surfaces. <i>Surface Science</i> , <b>2008</b> , 602, 2876-2879	1.8	10
57	Radial-breathing mode frequencies for nanotubes encapsulating fullerenes. <i>Chemical Physics Letters</i> , <b>2007</b> , 438, 59-62	2.5	33
56	Formation of titanium-carbide in a nanospace of C78 fullerenes. <i>Chemical Physics Letters</i> , <b>2007</b> , 438, 274-278	2.3	8
55	Energetics and electronic structures of carbon nanotubes with adatom/vacancy defects. <i>Chemical Physics Letters</i> , <b>2007</b> , 447, 263-267	2.5	17
54	ELECTRONIC STRUCTURE OF FINITE-LENGTH CARBON NANOTUBES: CROSSOVER FROM FULLERENES TO NANOTUBES. <i>Nano</i> , <b>2007</b> , 02, 51-57	1.1	15
53	Quantum effects in a cylindrical carbon-nanotube capacitor. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 365218	1.8	4
52	Energetics and electronic structure of armchair nanotubes with topological line defects. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 365231	1.8	1
51	Energetics of ice nanotubes and their encapsulation in carbon nanotubes from density-functional theory. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	27
50	Orientation dependence of magnetic moment on double-walled nanotubes with topological line defects. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 103120	3.4	3
49	Quantum effects in a double-walled carbon nanotube capacitor. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	20
48	Effect of encapsulated atoms on the electronic structure of the fullerene cage: A case study on La2@C78 and Ti2C2@C78 via ultraviolet photoelectron spectroscopy. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	18
47	Ferromagnetic spin ordering on carbon nanotubes with topological line defects. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	67
46	Carbon three-dimensional architecture formed by intersectional collision of graphene patches. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	53
45	New electron states that float on semiconductor and metal surfaces. <i>Surface Science</i> , <b>2005</b> , 585, L177-L188	1.8	6
44	Electronic structure of semiconducting nanotubes adsorbed on metal surfaces. <i>Physical Review Letters</i> , <b>2005</b> , 95, 206804	7.4	45
43	Energetics and electronic structures of potassium-intercalated C60 peapods. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	12



42	Metallic phase in the metal-intercalated higher fullerene Rb <sub>8.8(7)</sub> C <sub>84</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	9
41	Magnetism of Dangling Bond Networks on Hydrogen Deposited Si(111) Surfaces. <i>Hyomen Kagaku</i> , <b>2005</b> , 26, 144-150		
40	Electronic structure of stacked C <sub>60</sub> shuttlecocks. <i>Chemical Physics Letters</i> , <b>2004</b> , 399, 157-161	2.5	19
39	Electrochemical Tuning of Electronic Structure of C <sub>60</sub> and C <sub>70</sub> Fullerene Peapods: In Situ Visible Near-Infrared and Raman Study. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7666-7675	3.4	66
38	Scanning tunneling microscopy images of argon monolayer on a monolayer graphite surface. <i>Chemical Physics Letters</i> , <b>2003</b> , 371, 528-533	2.5	11
37	Energetics and electronic structure of C <sub>70</sub> -peapods and one-dimensional chains of C <sub>70</sub> . <i>New Journal of Physics</i> , <b>2003</b> , 5, 122-122	2.9	21
36	Nanometer-Scale Ferromagnet: Carbon Nanotubes with Finite Length. <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 1510-1515	1.5	80
35	Curvature-induced metallization of double-walled semiconducting zigzag carbon nanotubes. <i>Physical Review Letters</i> , <b>2003</b> , 91, 216801	7.4	65
34	First-principles calculation for scanning-tunneling-microscopy images of Kr adsorbed on a monolayer graphite surface. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	8
33	Energetics and electronic structures of one-dimensional fullerene chains encapsulated in zigzag nanotubes. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	102
32	Electronic structure of metallic rhombohedral C <sub>60</sub> polymers. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	24
31	Electron-state control of carbon nanotubes by space and encapsulated fullerenes. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	100
30	Magnetic ordering of dangling bond networks on hydrogen-deposited Si(111) surfaces. <i>Physical Review Letters</i> , <b>2003</b> , 90, 026803	7.4	32
29	Prediction of electronic properties of carbon-based nanostructures. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 323, 21-29	2.8	18
28	Electronic and geometric structures of multi-walled BN nanotubes. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 323, 224-226	2.8	12
27	Liquid Ammonia Treatment of Nylon 6 Fabric. <i>Textile Research Journal</i> , <b>2002</b> , 72, 539-544	1.7	6
26	Interwall interaction and electronic structure of double-walled BN nanotubes. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	72
25	Theoretical identification of C <sub>20</sub> fullerene and prediction of electronic properties of its solid phases. <i>Molecular Crystals and Liquid Crystals</i> , <b>2002</b> , 386, 97-101	0.5	6

24	Pressure and Orientation Effects on the Electronic Structure of Carbon Nanotube Bundles. <i>Journal of the Physical Society of Japan</i> , <b>2001</b> , 70, 2345-2352	1.5	16
23	Semiconducting form of the first-row elements: C60 chain encapsulated in BN nanotubes. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	35
22	Energetics and electronic structures of encapsulated C60 in a carbon nanotube. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3835-8	7.4	359
21	Magnetic ordering in hexagonally bonded sheets with first-row elements. <i>Physical Review Letters</i> , <b>2001</b> , 87, 146803	7.4	339
20	Electronic and geometric structures of fluorine adsorbed graphene. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1233-1234	3.4	21
19	Three-dimensional crystalline carbon: Stable polymers of C20 fullerene. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	47
18	Polarized absorption spectra of single-walled 4 Å carbon nanotubes aligned in channels of an AlPO <sub>4</sub> (4)-5 single crystal. <i>Physical Review Letters</i> , <b>2001</b> , 87, 127401	7.4	263
17	Nano-scale ferromagnets on semiconductors: Ga adsorbates on Si (100) surfaces. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 301-302	0.2	
16	Stable polymers of C74 and C78 fullerenes. <i>Chemical Physics Letters</i> , <b>2000</b> , 321, 156-162	2.5	9
15	Density functional study on geometry and electronic structure of Eu@C60. <i>Chemical Physics Letters</i> , <b>2000</b> , 327, 291-298	2.5	19
14	First-Principles Study on the Electronic Structure of Nanographite. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 340, 389-394		
13	Border states in heterosheets with hexagonal symmetry. <i>Physical Review B</i> , <b>2000</b> , 62, 9896-9899	3.3	64
12	Okada, Saito, and Oshiyama Reply:. <i>Physical Review Letters</i> , <b>2000</b> , 85, 5672-5672	7.4	2
11	Nearly free electron states in carbon nanotube bundles. <i>Physical Review B</i> , <b>2000</b> , 62, 7634-7638	3.3	75
10	Magnetic ordering of Ga wires on Si(100) surfaces. <i>Physical Review B</i> , <b>2000</b> , 62, R13286-R13289	3.3	6
9	Theoretical Study on the Superconductivity Induced by the Dynamic Jahn-Teller Effect in Alkali-Metal-Doped C60. <i>Journal of the Physical Society of Japan</i> , <b>2000</b> , 69, 2615-2622	1.5	29
8	Electronic structure and energetics of pressure-induced two-dimensional C60 polymers. <i>Physical Review B</i> , <b>1999</b> , 59, 1930-1936	3.3	86
7	New Metallic Crystalline Carbon: Three Dimensionally Polymerized C60 Fullerite. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1986-1989	7.4	111

6	Energetics of two-dimensionally polymerized C60 materials <b>1998</b> ,		4
5	Rhombohedral C60polymer:mA semiconducting solid carbon structure. <i>Physical Review B</i> , <b>1997</b> , 55, 4039-4041	3.3	46
4	Number of extractable fullerene isomers and speciality of C84. <i>Chemical Physics Letters</i> , <b>1996</b> , 252, 94-100	10.5	41
3	Electronic Structure of C78and C78-Graphite Cointercalation Compound. <i>Journal of the Physical Society of Japan</i> , <b>1995</b> , 64, 2100-2105	1.5	28
2	Common electronic structure and pentagon pairing in extractable fullerenes. <i>Physical Review Letters</i> , <b>1995</b> , 75, 685-688	7.4	63
1	Geometries and electronic structure of extractable C90 fullerenes. <i>Chemical Physics Letters</i> , <b>1995</b> , 247, 69-78	2.5	8