

Yasuhiko Hayashi

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218
papers

2,748
citations

28
h-index

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248
ext. papers

3,084
ext. citations

4
avg, IF

4.81
L-index

#	Paper	IF	Citations
218	Gas separation properties of functionalized carbon nanotubes mixed matrix membranes. <i>Separation and Purification Technology</i> , 2011 , 78, 208-213	8.3	118
217	Low resistivity p-ZnO films fabricated by sol-gel spin coating. <i>Applied Physics Letters</i> , 2006 , 88, 251116	3.4	87
216	Key role of the pore volume of zeolite for selective production of propylene from olefins. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2541-54	3.6	66
215	Transparent and flexible field electron emitters based on the conical nanocarbon structures. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4034-5	16.4	50
214	Optical Properties of Indium-Doped ZnO Films. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 1623-1628	1.4	47
213	Spectroscopic properties of nitrogen doped hydrogenated amorphous carbon films grown by radio frequency plasma-enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2001 , 89, 7924-7931	2.5	47
212	A photovoltaic cell from p-type boron-doped amorphous carbon film. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 105-112	6.4	45
211	Performance limit of daytime radiative cooling in warm humid environment. <i>AIP Advances</i> , 2018 , 8, 055124	2.4	45
210	Structural Monitoring of the Onset of Excited-State Aromaticity in a Liquid Crystal Phase. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15792-15800	16.4	44
209	Ferromagnetism in Cu-doped AlN films. <i>Applied Physics Letters</i> , 2009 , 95, 112111	3.4	44
208	Photovoltaic characteristics of boron-doped hydrogenated amorphous carbon on n-Si substrate prepared by r.f. plasma-enhanced CVD using trimethylboron. <i>Diamond and Related Materials</i> , 2003 , 12, 687-690	3.5	44
207	Facile fabrication method for p-n-type and ambipolar transport polyphenylenevinylene-based thin-film field-effect transistors by blending C60 fullerene. <i>Applied Physics Letters</i> , 2005 , 86, 052104	3.4	38
206	Synthesis and transistor application of the extremely extended phenacene molecule, [9]phenacene. <i>Scientific Reports</i> , 2016 , 6, 21008	4.9	37
205	Simple Technique of Exfoliation and Dispersion of Multilayer Graphene from Natural Graphite by Ozone-Assisted Sonication. <i>Nanomaterials</i> , 2017 , 7,	5.4	36
204	Effect of rf power on the photovoltaic properties of boron-doped amorphous carbon/n-type silicon junction fabricated by plasma enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2005 , 482, 86-89	2.2	36
203	In vitro evaluation of cytotoxicity and oxidative stress induced by multiwalled carbon nanotubes in murine RAW 264.7 macrophages and human A549 lung cells. <i>Biomedical and Environmental Sciences</i> , 2011 , 24, 593-601	1.1	36
202	Validation of lactate level as a predictor of early mortality in acute decompensated heart failure patients who entered intensive care unit. <i>Journal of Cardiology</i> , 2015 , 65, 164-70	3	35

201	Growth and structure analysis of tungsten oxide nanorods using environmental TEM. <i>Nanoscale Research Letters</i> , 2012 , 7, 85	5	33
200	Optical properties of conjugated poly(3-hexylthiophene)/[6,6]-phenylC61-butyric acid methyl ester composites. <i>Journal of Applied Physics</i> , 2007 , 102, 083104	2.5	33
199	A photoinduced charge transfer composite of graphene oxide and ferrocene. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1271-4	3.6	32
198	Formation and characterization of polymer/fullerene bulk heterojunction solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1276-1279	3.9	32
197	Neurosurgical robotic system for brain tumor removal. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2011 , 6, 375-85	3.9	31
196	Synthesis and spectroscopic investigation of trifluoroethoxy-coated phthalocyanine linked with fullerene. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 361-364	2.1	31
195	Influence of gas composition on the formation of graphene domain synthesized from camphor. <i>Materials Letters</i> , 2013 , 93, 258-262	3.3	30
194	Fabrication of ZnO nanoparticles confined in the channels of mesoporous carbon. <i>Chemical Engineering Journal</i> , 2012 , 179, 388-393	14.7	30
193	. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 2988-3000	2.9	30
192	Study of intercalation compounds using ionic liquids into montmorillonite and their thermal stability. <i>Solid State Ionics</i> , 2013 , 241, 53-61	3.3	28
191	The Inner Shell Influence on the Electronic Structure of Double-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2008 , 20, 189-194	24	28
190	Ultrafast carrier dynamics on conjugated poly(3-hexylthiophene)/[6,6]-phenylC61-butyric acid methyl ester composites. <i>Applied Physics Letters</i> , 2007 , 91, 111117	3.4	28
189	An approach for utilization of organic polymer as a sensitizer in solid-state cells. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 15-24	6.4	28
188	Optical and structural properties of nitrogen doped amorphous carbon films grown by rf plasma-enhanced CVD. <i>Diamond and Related Materials</i> , 2001 , 10, 1002-1006	3.5	28
187	Pre-treatment of multi-walled carbon nanotubes for polyetherimide mixed matrix hollow fiber membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 386, 80-7	9.3	27
186	Influence of Structure and C60Composition on Properties of Blends and Bilayers of Organic Donor-Acceptor Polymer/C60Photovoltaic Devices. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1296-1300	1.4	27
185	Effect of Radio Frequency Power on the Properties of Hydrogenated Amorphous Carbon Films Grown by Radio Frequency Plasma-Enhanced Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4088-4093	1.4	27
184	Ultrafast isomerization-induced cooperative motions to higher molecular orientation in smectic liquid-crystalline azobenzene molecules. <i>Nature Communications</i> , 2019 , 10, 4159	17.4	26

183	In situ TEM observation of Fe-included carbon nanofiber: evolution of structural and electrical properties in field emission process. <i>ACS Nano</i> , 2012 , 6, 9567-73	16.7	26
182	MOCVD growth of GaN on porous silicon substrates. <i>Journal of Crystal Growth</i> , 2008 , 310, 4900-4903	1.6	26
181	Water transport phenomena through membranes consisting of vertically-aligned double-walled carbon nanotube array. <i>Carbon</i> , 2017 , 120, 358-365	10.4	25
180	Effect of substrate temperature on the room-temperature ferromagnetism of Cu-doped ZnO films. <i>Journal of Crystal Growth</i> , 2009 , 311, 4270-4274	1.6	25
179	Low density of defect states in hydrogenated amorphous carbon thin films grown by plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2001 , 78, 294-296	3.4	23
178	Selective Reduction Mechanism of Graphene Oxide Driven by the Photon Mode the Thermal Mode. <i>ACS Nano</i> , 2019 , 13, 10103-10112	16.7	21
177	Single- and double-walled carbon nanotubes enhance atherosclerogenesis by promoting monocyte adhesion to endothelial cells and endothelial progenitor cell dysfunction. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 54	8.4	21
176	Synthesis, morphology and random laser action of ZnO nanostructures. <i>Surface Science</i> , 2007 , 601, 2660-2663	3.6	21
175	Bulk heterojunction solar cells based on two kinds of organic polymers and fullerene derivative. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 422-425	5.1	21
174	Synthesis and characterization of metal-filled carbon nanotubes by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2005 , 14, 790-793	3.5	21
173	Tenascin-C is associated with coronary plaque instability in patients with acute coronary syndromes. <i>Circulation Journal</i> , 2004 , 68, 198-203	2.9	21
172	Boron-Incorporated Amorphous Carbon Films Deposited by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L970-L973	1.4	21
171	Synthesis of transfer-free graphene on an insulating substrate using a solid phase reaction. <i>Nanoscale</i> , 2012 , 4, 7791-6	7.7	19
170	Enhanced photovoltaic device performance upon modification of indium tin oxide coated glass by liquid nitrogen treatment. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 042002	3	19
169	Corn-shape carbon nanofibers with dense graphite synthesized by microwave plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2004 , 84, 2886-2888	3.4	19
168	Simple methods for tuning the pore diameter of mesoporous carbon. <i>Chemical Communications</i> , 2011 , 47, 10758-60	5.8	18
167	Synthesis, microstructure and photoluminescence of well-aligned ZnO nanorods on Si substrate. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 443-447	7.1	18
166	Cobalt nanorods fully encapsulated in carbon nanotube and magnetization measurements by off-axis electron holography. <i>Applied Physics Letters</i> , 2006 , 88, 243118	3.4	18

165	Microstructure of metal-filled carbon nanotubes. <i>Journal of Electron Microscopy</i> , 2004 , 53, 149-55		18
164	Highly transparent and flexible field emission devices based on single-walled carbon nanotube films. <i>Chemical Communications</i> , 2011 , 47, 4980-2	5.8	17
163	Room-Temperature CW Operation of AlGaAs/GaAs SQW Lasers on Si Substrates by MOCVD Using AlGaAs/AlGaP Intermediate Layers. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, L1133-L1135	1.4	17
162	Long-term use of carvedilol in patients with ST-segment elevation myocardial infarction treated with primary percutaneous coronary intervention. <i>PLoS ONE</i> , 2018 , 13, e0199347	3.7	17
161	Phenol resin carbonized films with anisotropic shrinkage driven ordered mesoporous structures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15135	13	16
160	Self-assembled monolayer electrode of a diiron complex with a phenoxo-based dinucleating ligand: observation of molecular oxygen adsorption/desorption in aqueous media. <i>Chemical Communications</i> , 2008 , 392-4	5.8	16
159	Transistors fabricated using the single crystals of [8]phenacene. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7370-7378	7.1	15
158	In-situ observation of carbon nanotube fiber spinning from vertically aligned carbon nanotube forest. <i>Diamond and Related Materials</i> , 2012 , 24, 158-160	3.5	15
157	New diarylmethanofullerene derivatives and their properties for organic thin-film solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2009 , 5, 7	2.5	15
156	Low-temperature growth of GaAs polycrystalline films on glass substrates for space solar cell application. <i>Journal of Crystal Growth</i> , 2000 , 221, 688-692	1.6	15
155	One-Minute Joule Annealing Enhances the Thermoelectric Properties of Carbon Nanotube Yarns via the Formation of Graphene at the Interface. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7700-7708	6.1	14
154	Synthesis of graphene by surface wave plasma chemical vapor deposition from camphor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2510-2513	1.6	14
153	Effect of defects in ferromagnetic C doped ZnO thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1254-1257	1.3	14
152	Room-temperature ferromagnetism of Cu-doped ZnO films deposited by helicon magnetron sputtering. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1243-1247	1.3	14
151	Determination of Young's modulus of carbon nanofiber probes fabricated by the argon ion bombardment of carbon coated silicon cantilever. <i>Carbon</i> , 2011 , 49, 4191-4196	10.4	14
150	Structural and Electrical Properties of Ozone Irradiated Carbon Nanotube Yarns and Sheets. <i>Materials Express</i> , 2012 , 2, 357-362	1.3	14
149	Carbon nanotubes on carbon fabrics for flexible field emitter arrays. <i>Applied Physics Letters</i> , 2008 , 93, 053107	3.4	14
148	Efficient nitrogen incorporation into amorphous carbon films by double beam method. <i>Diamond and Related Materials</i> , 2005 , 14, 970-974	3.5	14

147	Cross-Polarized Surface-Enhanced Infrared Spectroscopy by Fano-Resonant Asymmetric Metamaterials. <i>Scientific Reports</i> , 2017 , 7, 3205	4.9	13
146	Growth evolution of rapid grown aligned carbon nanotube forests without water vapor on Fe/Al ₂ O ₃ /SiO ₂ /Si substrate. <i>Diamond and Related Materials</i> , 2011 , 20, 859-862	3.5	13
145	Template-free electrochemical nanofabrication of polyaniline nanobrush and hybrid polyaniline with carbon nanohorns for supercapacitors. <i>Nanotechnology</i> , 2010 , 21, 435702	3.4	13
144	Development of a real-time tactile sensing system for brain tumor diagnosis. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010 , 5, 359-67	3.9	13
143	Encapsulation of Co and Pd multi-metal nanowires inside multiwalled carbon nanotubes by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2007 , 16, 1200-1203	3.5	13
142	Reaction of indium ate complexes with allylic compounds. Controlling SN ₂ /SN ₂ ? selectivity by solvents. <i>Tetrahedron Letters</i> , 2004 , 45, 3225-3228	2	13
141	Development of new materials for solar cells in Nagoya Institute of Technology. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 27-33	7.1	13
140	Growth and characterization of GaAs epitaxial layers on Si/porous Si/Si substrate by chemical beam epitaxy. <i>Journal of Applied Physics</i> , 2001 , 89, 5215-5218	2.5	13
139	Ultrasonic-assisted synthesis of ZnO nano particles decked with few layered graphene nanocomposite as photoanode in dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 6217-6225	2.1	12
138	Morphology control of a rapidly grown vertically aligned carbon-nanotube forest for fiber spinning. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2332-2334	1.6	12
137	Simultaneous improvement in electrical conductivity and Seebeck coefficient of PEDOT:PSS by N pressure-induced nitric acid treatment.. <i>RSC Advances</i> , 2018 , 8, 36563-36570	3.7	12
136	Structural, optical and mechanical properties of nanostructure diamond synthesized by chemical vapor deposition. <i>Tribology International</i> , 2004 , 37, 965-974	4.9	11
135	Preparation of carbon micro-coils involving the decomposition of hydrocarbons using PACT (plasma and catalyst technology) reactor. <i>Carbon</i> , 2002 , 40, 1071-1077	10.4	11
134	Formation of wedge-shaped carbon film by chemical vapor deposition method and observation using transmission electron microscopy. <i>Scripta Materialia</i> , 2005 , 52, 1205-1209	5.6	11
133	Origin of yellow luminescence in n-GaN induced by high-energy 7MeV electron irradiation. <i>Physica B: Condensed Matter</i> , 2001 , 304, 12-17	2.8	11
132	Determination of optical properties of nitrogen-doped hydrogenated amorphous carbon films by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2001 , 78, 3962-3964	3.4	11
131	Thermal Stress Relaxation in GaAs Layer on New Thin Si Layer over Porous Si Substrate Grown by Metalorganic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L1354-L1357	1.4	11
130	Association between J-CTO score and long-term target lesion revascularization rate after successful chronic total coronary occlusion angioplasty (from the J-CTO Registry). <i>Catheterization and Cardiovascular Interventions</i> , 2019 , 93, 1025-1032	2.7	10

129	Liquid-like dielectric response is an origin of long polaron lifetime exceeding 10 ps in lead bromide perovskites. <i>Journal of Chemical Physics</i> , 2020 , 152, 084704	3.9	10
128	Resistance-heating of carbon nanotube yarns in different atmospheres. <i>Carbon</i> , 2018 , 133, 232-238	10.4	10
127	Immunohistochemical analysis of hepatocyte growth factor in human coronary atherectomy specimens: comparison with transforming growth factor beta isoforms. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1997 , 430, 407-15	5.1	10
126	Preparation of Platinum Nanoparticles in Heterogeneous Solid-Liquid System by Ultrasound and Microwave Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4482-4487	1.3	10
125	Experience with emergency cardiac surgery following institution of percutaneous cardiopulmonary support. <i>Artificial Organs</i> , 1999 , 23, 496-9	2.6	10
124	Comparison of everolimus- and paclitaxel-eluting stents in dialysis patients. <i>Cardiovascular Revascularization Medicine</i> , 2015 , 16, 208-12	1.6	9
123	Poly[(3-hexylthiophene)-block-(3-semifluoroalkylthiophene)] for polymer solar cells. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 5027-39	6.3	9
122	Encapsulation of segmented Pd/Co nanocomposites into vertically aligned carbon nanotubes by plasma-hydrogen-induced demixing. <i>Applied Physics Letters</i> , 2007 , 90, 133116	3.4	9
121	Antiplatelet therapy discontinuation and stent thrombosis after sirolimus-eluting stent implantation: five-year outcome of the J-Cypher Registry. <i>International Journal of Cardiology</i> , 2015 , 199, 296-301	3.2	8
120	Expansion of Shockley stacking fault observed by scanning electron microscope and partial dislocation motion in 4H-SiC. <i>Journal of Applied Physics</i> , 2018 , 123, 161580	2.5	8
119	Transparent and flexible field emission display device based on single-walled carbon nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 303-305	2.5	8
118	Direct growth of carbon nanofibers on metal mesh substrates by ion irradiation method. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C2C9-C2C12	1.3	8
117	Synthesis and characterization of carbon nanotube grown on flexible and conducting carbon fiber sheet for field emitter. <i>Diamond and Related Materials</i> , 2009 , 18, 341-344	3.5	8
116	Super-chiral vibrational spectroscopy with metasurfaces for high-sensitive identification of alanine enantiomers. <i>Applied Physics Letters</i> , 2020 , 117, 101103	3.4	8
115	Synergistic effect of bolus exposure to zinc oxide nanoparticles on bleomycin-induced secretion of pro-fibrotic cytokines without lasting fibrotic changes in murine lungs. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 660-76	6.3	7
114	Whitish daytime radiative cooling using diffuse reflection of non-resonant silica nanoshells. <i>Scientific Reports</i> , 2020 , 10, 6486	4.9	7
113	High-performance structure of a coil-shaped soft-actuator consisting of polymer threads and carbon nanotube yarns. <i>AIP Advances</i> , 2018 , 8, 075316	1.5	7
112	Photovoltaic properties of an amorphous carbon/fullerene junction. <i>Carbon</i> , 2013 , 60, 1-4	10.4	7

111	Azidation of polyesters having pendent functionalities by using NaN ₃ or DPPADBU and photo-crosslinking of the azidopolyesters. <i>Polymer Journal</i> , 2011 , 43, 272-278	2.7	7
110	Direct fabrication of aligned metal composite carbon nanofibers on copper substrate at room temperature and their field emission property. <i>Chemical Communications</i> , 2011 , 47, 4820-2	5.8	7
109	Room-temperature growth of ion-induced carbon nanofibers: Effects of ion species. <i>Diamond and Related Materials</i> , 2008 , 17, 525-528	3.5	7
108	Microstructure Analyses of Metal-Filled Carbon Nanotubes Synthesized by Microwave Plasma-Enhanced Chemical Vapor Deposition. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 485-490	2.6	7
107	Quinapril with high affinity to tissue angiotensin-converting enzyme reduces restenosis after percutaneous transcatheter coronary intervention. <i>Cardiovascular Drugs and Therapy</i> , 2001 , 15, 323-9	3.9	7
106	Single crystal of two-dimensional mixed-halide copper-based perovskites with reversible thermochromism. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3264-3270	7.1	7
105	Synthesis and characterization of conductive flexible cellulose carbon nanohorn sheets for human tissue applications. <i>Biomaterials Research</i> , 2020 , 24, 18	16.8	6
104	Controlling Electronic States of Few-walled Carbon Nanotube Yarn via Joule-annealing and p-type Doping Towards Large Thermoelectric Power Factor. <i>Scientific Reports</i> , 2020 , 10, 7307	4.9	6
103	In-situ X-ray diffraction reveals the degradation of crystalline CH ₃ NH ₃ PbI ₃ by water-molecule collisions at room temperature. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 028001	1.4	6
102	Application of ion-induced carbon nanocomposite fibers to magnetic force microscope probes. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 980		6
101	High-Resolution Imaging of Plasmid DNA in Liquids in Dynamic Mode Atomic Force Microscopy Using a Carbon Nanofiber Tip. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08LB14	1.4	6
100	Room-temperature synthesis and characterisation of ion-induced iron-carbon nanocomposite fibres. <i>International Journal of Nanotechnology</i> , 2009 , 6, 753	1.5	6
99	Morphological and structural characterization of metal-doped carbon nanofibers synthesized at room temperature. <i>Journal of Physics: Conference Series</i> , 2008 , 100, 012029	0.3	6
98	Modification of the physical properties of chemical vapor-deposited nanostructure diamond by argon-hydrogen plasma surface treatment. <i>Physics of the Solid State</i> , 2004 , 46, 733-737	0.8	6
97	Fundamental Study on Organic Solar Cells Based on Soluble Zinc Phthalocyanine. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DK09	1.4	6
96	The critical role of the forest morphology for dry drawability of few-walled carbon nanotubes. <i>Carbon</i> , 2020 , 158, 662-671	10.4	6
95	Bond Dissociation Triggering Molecular Disorder in Amorphous HO. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9579-9584	2.8	6
94	Supercapacitor electrode with high charge density based on boron-doped porous carbon derived from covalent organic frameworks. <i>Carbon</i> , 2021 , 184, 418-425	10.4	6

93	Surface modification of carbon nanohorns by helium plasma and ozone treatments. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 01AB08	1.4	5
92	Systematic Investigations of Annealing and Functionalization of Carbon Nanotube Yarns. <i>Molecules</i> , 2020 , 25,	4.8	5
91	High temperature in-situ observations of multi-segmented metal nanowires encapsulated within carbon nanotubes by in-situ filling technique. <i>Nanoscale Research Letters</i> , 2012 , 7, 448	5	5
90	Phthalocyanine with Trifluoroethoxy Substituents for Organic Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 05DA07	1.4	5
89	PREPARATION AND CHARACTERISTICS OF FUNCTIONALIZED MULTIWALLED CARBON NANOTUBES IN POLYIMIDE MIXED MATRIX MEMBRANE. <i>Nano</i> , 2010 , 05, 195-202	1.1	5
88	Fundamental Study on Organic Solar Cells Based on Soluble Zinc Phthalocyanine. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DK09	1.4	5
87	Facile fabrication and structural studies of filtered Ge nanowires from aged AlCu alloy. <i>Scripta Materialia</i> , 2007 , 57, 281-284	5.6	5
86	Demixing of Solid-Soluted Co-Pd Binary Alloy Induced by Microwave Plasma Hydrogen Irradiation Technique. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L860-L863	1.4	5
85	Characterization of amorphous carbon nitride by bottom-gated thin-film structure. <i>Diamond and Related Materials</i> , 2006 , 15, 1015-1018	3.5	5
84	Growth of GaAs epitaxial layers on Si substrate with porous Si intermediate layer by chemical beam epitaxy. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 1450-1454	1.6	5
83	The formation of a (111) texture of the diamond film on Pt/TiO ₂ /SiO _x /Si substrate by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2002 , 11, 499-503	3.5	5
82	Challenges for developing photo-induced phase transition (PIPT) systems: From classical (incoherent) to quantum (coherent) control of PIPT dynamics. <i>Physics Reports</i> , 2021 , 942, 1-1	27.7	5
81	Effect of ultraviolet light irradiation and ion collision on the quality of multilayer graphene prepared by microwave surface-wave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2016 , 66, 157-162	3.5	5
80	Synthesis of solvent-free conductive and flexible cellulose/carbon nanohorn sheets and their application as a water vapor sensor. <i>Materials Research Express</i> , 2020 , 7, 056402	1.7	4
79	Multilayer graphene/amorphous carbon hybrid films prepared by microwave surface-wave plasma CVD: synthesis and characterization. <i>Surface and Interface Analysis</i> , 2017 , 49, 291-296	1.5	4
78	Improved open circuit voltage of the photovoltaic device using ferrocene as a donor material. <i>Synthetic Metals</i> , 2010 , 160, 779-782	3.6	4
77	Formation of carbon nanostructures containing single-crystalline cobalt carbides by ion irradiation method. <i>Applied Surface Science</i> , 2011 , 257, 3168-3173	6.7	4
76	Influence of new fullerene derivatives with fluorocarbon substituent on performance of polymer solar cells. <i>Physics Procedia</i> , 2011 , 14, 192-197		4

75	Room-temperature synthesis and characterization of cobalt-doped carbon nanofibers. <i>Diamond and Related Materials</i> , 2008 , 17, 581-584	3.5	4
74	Synthesis of corn-shape carbon nanofibers on Si and Mo substrates by bias-enhanced microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2004 , 13, 1198-1202	3.5	4
73	Hyperinsulinemia as a risk factor for restenosis after coronary balloon angioplasty. <i>Japanese Circulation Journal</i> , 2001 , 65, 947-52		4
72	Role of cyclic process in the initial stage of diamond deposition during bias enhanced nucleation. <i>Journal of Applied Physics</i> , 2002 , 91, 9752	2.5	4
71	Theoretical Studies on Hole Transport and the Effective Hall Factor in Cubic Phase of p-Type GaN. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 622-630	1.4	4
70	Temperature dependence of pressure-driven water permeation through membranes consisting of vertically-aligned double-walled carbon nanotube arrays. <i>Carbon</i> , 2019 , 146, 785-788	10.4	4
69	In situ observation of carbon nanotube yarn during voltage application. <i>Micron</i> , 2015 , 74, 30-4	2.3	3
68	Influence of pressure of nitrogen gas on structure and thermoelectric properties of acid-treated PEDOT:PSS films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13534-13542	2.1	3
67	Controllable fabrication and characterization of conical nanocarbon structures on polymer substrate for transparent and flexible field emission displays. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 184-186	2.5	3
66	Fabrication of ion-induced carbon-cobalt nanocomposite fibers: effect of cobalt supply rate. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 10677-81	1.3	3
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64	Fabrication of well ordered Zn nanorod arrays by ion irradiation method at room temperature and effect on crystal orientations. <i>Applied Surface Science</i> , 2009 , 256, 1481-1485	6.7	3
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