

Edwin Hang Tong Teo

List of Publications by Year in descending order

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135
papers

7,420
citations

117453

34
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54797

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136
all docs

136
docs citations

136
times ranked

12886
citing authors

#	ARTICLE	IF	CITATIONS
1	From Bulk to Monolayer MoS ₂ : Evolution of Raman Scattering. <i>Advanced Functional Materials</i> , 2012, 22, 1385-1390.	7.8	3,354
2	High-quality monolayer superconductor NbSe ₂ grown by chemical vapour deposition. <i>Nature Communications</i> , 2017, 8, 394.	5.8	290
3	Growth of Large Single-Crystalline Two-Dimensional Boron Nitride Hexagons on Electropolished Copper. <i>Nano Letters</i> , 2014, 14, 839-846.	4.5	275
4	Biocompatible Hydroxylated Boron Nitride Nanosheets/Poly(vinyl alcohol) Interpenetrating Hydrogels with Enhanced Mechanical and Thermal Responses. <i>ACS Nano</i> , 2017, 11, 3742-3751.	7.3	191
5	Scalable Production of Few-Layer Boron Sheets by Liquid-Phase Exfoliation and Their Superior Supercapacitive Performance. <i>ACS Nano</i> , 2018, 12, 1262-1272.	7.3	177
6	Hexagonal Boron Nitride Thin Film for Flexible Resistive Memory Applications. <i>Advanced Functional Materials</i> , 2016, 26, 2176-2184.	7.8	167
7	High-Density 3D-Boron Nitride and 3D-Graphene for High-Performance Nano-“Thermal Interface Material. <i>ACS Nano</i> , 2017, 11, 2033-2044.	7.3	152
8	Controllable Synthesis of Highly Luminescent Boron Nitride Quantum Dots. <i>Small</i> , 2015, 11, 6491-6499.	5.2	148
9	Lightweight, Superelastic Boron Nitride/Polydimethylsiloxane Foam as Air Dielectric Substitute for Multifunctional Capacitive Sensor Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909604.	7.8	117
10	Direct Observation of Indium Conductive Filaments in Transparent, Flexible, and Transferable Resistive Switching Memory. <i>ACS Nano</i> , 2017, 11, 1712-1718.	7.3	83
11	Band gap effects of hexagonal boron nitride using oxygen plasma. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	82
12	Abrupt Stress Induced Transformation in Amorphous Carbon Films with a Highly Conductive Transition Phase. <i>Physical Review Letters</i> , 2008, 100, 176101.	2.9	81
13	Synthesis of aligned symmetrical multifaceted monolayer hexagonal boron nitride single crystals on resolidified copper. <i>Nanoscale</i> , 2016, 8, 2434-2444.	2.8	81
14	Low-Temperature in Situ Growth of Graphene on Metallic Substrates and Its Application in Anticorrosion. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 502-510.	4.0	78
15	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1806603.	11.1	73
16	A systematic study of the atmospheric pressure growth of large-area hexagonal crystalline boron nitride film. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1650.	2.7	72
17	Reduced Graphene Oxide/Boron Nitride Composite Film as a Novel Binder-Free Anode for Lithium Ion Batteries with Enhanced Performances. <i>Electrochimica Acta</i> , 2015, 166, 197-205.	2.6	69
18	Localized emission from laser-irradiated defects in 2D hexagonal boron nitride. <i>2D Materials</i> , 2018, 5, 015010.	2.0	65

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19	Trimethylamine Borane: A New Single-Source Precursor for Monolayer h-BN Single Crystals and h-BCN Thin Films. <i>Chemistry of Materials</i> , 2016, 28, 2180-2190.	3.2	62
20	Direct growth of nanocrystalline hexagonal boron nitride films on dielectric substrates. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	60
21	Large Area Atomic Layers of the Charge Density Wave Conductor TiSe_2 . <i>Advanced Materials</i> , 2018, 30, 1704382.	11.1	60
22	3D Graphene-Infused Polyimide with Enhanced Electrothermal Performance for Long-Term Flexible Space Applications. <i>Small</i> , 2015, 11, 6425-6434.	5.2	59
23	Engineering of High-Density Thin-Layer Graphite Foam-Based Composite Architectures with Superior Compressibility and Excellent Electromagnetic Interference Shielding Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41707-41716.	4.0	55
24	Configurable Three-Dimensional Boron Nitride-Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances. <i>Small</i> , 2014, 10, 2992-2999.	5.2	50
25	Manipulating Coherent Light-Matter Interaction: Continuous Transition between Strong Coupling and Weak Coupling in MoS_2 Monolayer Coupled with Plasmonic Nanocavities. <i>Advanced Optical Materials</i> , 2019, 7, 1900857.	3.6	48
26	Facile Synthesis of Millimeter-Scale Vertically Aligned Boron Nitride Nanotube Forests by Template-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2015, 27, 7156-7163.	3.2	47
27	A Carbon Nanomattress: A New Nanosystem with Intrinsic, Tunable, Damping Properties. <i>Advanced Materials</i> , 2007, 19, 2941-2945.	11.1	44
28	Core-shell CNT-Ni-Si nanowires as a high performance anode material for lithium ion batteries. <i>Carbon</i> , 2013, 63, 54-60.	5.4	41
29	Phonon localization around vacancies in graphene nanoribbons. <i>Diamond and Related Materials</i> , 2012, 23, 88-92.	1.8	40
30	Flexible Ultra-Wideband Terahertz Absorber Based on Vertically Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43671-43680.	4.0	39
31	Concurrent Inhibition and Redistribution of Spontaneous Emission from All Inorganic Perovskite Photonic Crystals. <i>ACS Photonics</i> , 2019, 6, 1331-1337.	3.2	39
32	Elastic Properties of 2D Ultrathin Tungsten Nitride Crystals Grown by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2019, 29, 1902663.	7.8	37
33	One-dimensional hexagonal boron nitride conducting channel. <i>Science Advances</i> , 2020, 6, eaay4958.	4.7	37
34	POSS enhanced 3D graphene - Polyimide film for atomic oxygen endurance in Low Earth Orbit space environment. <i>Polymer</i> , 2020, 191, 122270.	1.8	37
35	Thermal Conductivity Enhancement of Coaxial Carbon@Boron Nitride Nanotube Arrays. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14555-14560.	4.0	35
36	Plasma density induced formation of nanocrystals in physical vapor deposited carbon films. <i>Carbon</i> , 2011, 49, 1733-1744.	5.4	34

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37	Human Rett-derived neuronal progenitor cells in 3D graphene scaffold as an <i>in vitro</i> platform to study the effect of electrical stimulation on neuronal differentiation. Biomedical Materials (Bristol), 2018, 13, 034111.	1.7	32
38	Three-Dimensional Graphene: A Biocompatible and Biodegradable Scaffold with Enhanced Oxygenation. Advanced Healthcare Materials, 2016, 5, 1177-1191.	3.9	31
39	Optical and electro-optic anisotropy of epitaxial PZT thin films. Applied Physics Letters, 2015, 107, .	1.5	30
40	Coaxial carbon@boron nitride nanotube arrays with enhanced thermal stability and compressive mechanical properties. Nanoscale, 2016, 8, 11114-11122.	2.8	30
41	Multifunctional and highly compressive cross-linker-free sponge based on reduced graphene oxide and boron nitride nanosheets. Chemical Engineering Journal, 2017, 328, 825-833.	6.6	30
42	Field emission enhancement and microstructural changes of carbon films by single pulse laser irradiation. Carbon, 2011, 49, 1018-1024.	5.4	29
43	Carbon nanotube bumps for the flip chip packaging system. Nanoscale Research Letters, 2012, 7, 105.	3.1	29
44	A wafer-scale graphene and ferroelectric multilayer for flexible and fast-switched modulation applications. Nanoscale, 2015, 7, 14730-14737.	2.8	26
45	Vertically self-ordered orientation of nanocrystalline hexagonal boron nitride thin films for enhanced thermal characteristics. Nanoscale, 2015, 7, 18984-18991.	2.8	26
46	Re-ordering Chaotic Carbon: Origins and Application of Textured Carbon. Advanced Materials, 2012, 24, 4112-4123.	11.1	25
47	Mechanical properties of alternating high-low sp ³ content thick non-hydrogenated diamond-like amorphous carbon films. Diamond and Related Materials, 2007, 16, 1882-1886.	1.8	24
48	Quantitative, nanoscale mapping of sp ² percentage and crystal orientation in carbon multilayers. Carbon, 2009, 47, 94-101.	5.4	24
49	Superhydrophobic carbon nanotube/amorphous carbon nanosphere hybrid film. Diamond and Related Materials, 2009, 18, 1235-1238.	1.8	21
50	Concentric and Spiral Few-Layer Graphene: Growth Driven by Interfacial Nucleation vs Screw Dislocation. Chemistry of Materials, 2018, 30, 6858-6866.	3.2	21
51	Wafer-scale vertically aligned carbon nanotubes for broadband terahertz wave absorption. Carbon, 2019, 154, 503-509.	5.4	20
52	Thermal conductivity of nanocrystalline carbon films studied by pulsed photothermal reflectance. Carbon, 2012, 50, 1428-1431.	5.4	19
53	Microstructure and through-film electrical characteristics of vertically aligned amorphous carbon films. Diamond and Related Materials, 2011, 20, 290-293.	1.8	18
54	Flux-mediated diffuse mismatch model. Applied Physics Letters, 2010, 97, .	1.5	17

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55	Morphology-tunable assembly of periodically aligned Si nanowire and radial pn junction arrays for solar cell applications. <i>Applied Surface Science</i> , 2012, 258, 6169-6176.	3.1	17
56	Ultra-long wavelength Dirac plasmons in graphene capacitors. <i>JPhys Materials</i> , 2018, 1, 01LT02.	1.8	17
57	Light emission from localised point defects induced in GaN crystal by a femtosecond-pulsed laser. <i>Optical Materials Express</i> , 2018, 8, 2703.	1.6	17
58	Electrostatic Coupling in MoS ₂ /CuInP ₂ S ₆ Ferroelectric vdW Heterostructures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
59	Effect of initial sp ³ content on bonding structure evolution of amorphous carbon upon pulsed laser annealing. <i>Diamond and Related Materials</i> , 2012, 30, 48-52.	1.8	16
60	A flexible and ultra-broadband terahertz wave absorber based on graphene-vertically aligned carbon nanotube hybrids. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7244-7252.	2.7	16
61	The origin of preferred orientation during carbon film growth. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 225003.	0.7	15
62	Interpillar phononics in pillared-graphene hybrid nanostructures. <i>Journal of Applied Physics</i> , 2011, 110, 083502.	1.1	15
63	The Electrochemical Response of Single Crystalline Copper Nanowires to Atmospheric Air and Aqueous Solution. <i>Small</i> , 2017, 13, 1603411.	5.2	15
64	Smoothing of wrinkles in CVD-grown hexagonal boron nitride films. <i>Nanoscale</i> , 2018, 10, 16243-16251.	2.8	15
65	Novel timed and self-resistive heating shape memory polymer hybrid for large area and energy efficient application. <i>Carbon</i> , 2018, 139, 626-634.	5.4	15
66	Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. <i>Nano Letters</i> , 2019, 19, 4229-4236.	4.5	15
67	Synthesis of Atomically Thin 1T-TaSe ₂ with a Strongly Enhanced Charge Density Wave Order. <i>Advanced Functional Materials</i> , 2020, 30, 2001903.	7.8	15
68	Boron nanosheets induced microstructure and charge transfer tailoring in carbon nanofibrous mats towards highly efficient water splitting. <i>Nano Energy</i> , 2021, 88, 106246.	8.2	15
69	Nano-patterning of through-film conductivity in anisotropic amorphous carbon induced using conductive atomic force microscopy. <i>Carbon</i> , 2011, 49, 2679-2682.	5.4	14
70	Composition-controlled synthesis and tunable optical properties of ternary boron carbonitride nanotubes. <i>RSC Advances</i> , 2017, 7, 12511-12517.	1.7	14
71	Monochromatic photoluminescence obtained from embedded ZnO nanodots in an ultrahard diamond-like carbon matrix. <i>Diamond and Related Materials</i> , 2008, 17, 167-170.	1.8	13
72	Phononic and structural response to strain in wurtzite-gallium nitride nanowires. <i>Journal of Applied Physics</i> , 2012, 111, 103506.	1.1	13

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73	Ferroelectric BiFeO ₃ thin-film optical modulators. Applied Physics Letters, 2016, 108, .	1.5	12
74	Tuning the Kapitza resistance in pillared-graphene nanostructures. Journal of Applied Physics, 2012, 111, .	1.1	11
75	Electrical properties of textured carbon film formed by pulsed laser annealing. Diamond and Related Materials, 2012, 23, 135-139.	1.8	11
76	Three-dimensional graphene based passively mode-locked fiber laser. Optics Express, 2014, 22, 31458.	1.7	11
77	Flexible thermal rectifier based on macroscopic PDMS@graphite composite film with asymmetric cone-shape interfaces. Carbon, 2018, 126, 464-471.	5.4	11
78	An effective thermal conductivity model for architected phase change material enhancer: Theoretical and experimental investigations. International Journal of Heat and Mass Transfer, 2021, 176, 121364.	2.5	11
79	Impact of the CNT growth process on gold metallization dedicated to RF interconnect applications. International Journal of Microwave and Wireless Technologies, 2010, 2, 463-469.	1.5	10
80	Nanostructured carbon films with oriented graphitic planes. Applied Physics Letters, 2011, 98, 123104.	1.5	10
81	Supercompressible Coaxial Carbon Nanotube@Graphene Arrays with Invariant Viscoelasticity over ~ 100 to 500 $^{\circ}\text{C}$ in Ambient Air. ACS Applied Materials & Interfaces, 2018, 10, 9688-9695.	4.0	10
82	Thermally Conductive and Leakage-Proof Phase-Change Materials Composed of Dense Graphene Foam and Paraffin for Thermal Management. ACS Applied Nano Materials, 2022, 5, 8362-8370.	2.4	10
83	Control of Nanoplane Orientation in voBN for High Thermal Anisotropy in a Dielectric Thin Film: A New Solution for Thermal Hotspot Mitigation in Electronics. ACS Applied Materials & Interfaces, 2017, 9, 7456-7464.	4.0	9
84	Strong electro-optically active Ni-substituted Pb(Zr _{0.35} Ti _{0.65})O ₃ thin films: toward integrated active and durable photonic devices. Journal of Materials Chemistry C, 2018, 6, 12919-12927.	2.7	9
85	Effect of loading fraction of three-dimensional graphene foam (3D-C) on thermal, mechanical, and shape memory properties of 3D-C/SMP composite. Materials Research Bulletin, 2021, 142, 111378.	2.7	9
86	Identifying the mechanisms of p-to-n conversion in unipolar graphene field-effect transistors. Nanotechnology, 2013, 24, 195202.	1.3	8
87	Tuning electro-optic susceptibility via strain engineering in artificial PZT multilayer films for high-performance broadband modulator. Applied Surface Science, 2017, 425, 1059-1065.	3.1	8
88	Gate voltage and temperature dependent Ti-graphene junction resistance toward straightforward p-n junction formation. Journal of Applied Physics, 2018, 124, .	1.1	8
89	Compounded effect of vacancy on interfacial thermal transport in diamond-graphene nanostructures. Diamond and Related Materials, 2011, 20, 1137-1142.	1.8	7
90	Thermal rectification reversal in carbon nanotubes. Journal of Applied Physics, 2012, 112, .	1.1	7

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91	Thickness dependency of field emission in amorphous and nanostructured carbon thin films. <i>Nanoscale Research Letters</i> , 2012, 7, 286.	3.1	7
92	A corner reflector of graphene Dirac fermions as a phonon-scattering sensor. <i>Nature Communications</i> , 2019, 10, 2428.	5.8	7
93	On the recovery of 2DEG properties in vertically ordered h-BN deposited AlGaN/GaN heterostructures on Si substrate. <i>Applied Physics Express</i> , 2020, 13, 065508.	1.1	7
94	Effect of titanium nitride coating on physical properties of three-dimensional graphene. <i>Applied Surface Science</i> , 2015, 356, 399-407.	3.1	6
95	Investigation of electronic band structure and charge transfer mechanism of oxidized three-dimensional graphene as metal-free anodes material for dye sensitized solar cell application. <i>Chemical Physics Letters</i> , 2017, 685, 442-450.	1.2	6
96	A thermal study of amorphous and textured carbon and carbon nitride thin films via transient grating spectroscopy. <i>Carbon</i> , 2018, 130, 355-361.	5.4	6
97	Wafer-Scale Vertically Aligned Carbon Nanotubes Locked by In Situ Hydrogelation toward Strengthening Static and Dynamic Compressive Responses. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800024.	1.7	6
98	Landau Velocity for Collective Quantum Hall Breakdown in Bilayer Graphene. <i>Physical Review Letters</i> , 2018, 121, 136804.	2.9	6
99	Experimental characterization of three-dimensional Graphene's thermoacoustic response and its theoretical modelling. <i>Carbon</i> , 2020, 169, 382-394.	5.4	6
100	Mechanical properties of gradient pulse biased amorphous carbon film. <i>Thin Solid Films</i> , 2008, 516, 5364-5367.	0.8	5
101	Fabrication and Characterization of Multilayer Amorphous Carbon Films for Microcantilever Devices. <i>IEEE Sensors Journal</i> , 2008, 8, 616-620.	2.4	5
102	Enhancement of polyimide and 3D graphene-polyimide through thermoforming and its effect on mechanical properties and associated creep phenomenon. <i>Polymer Degradation and Stability</i> , 2016, 134, 237-244.	2.7	5
103	Effect of annealing temperature on physical properties of nanostructured TiN/3DG composite. <i>Materials and Design</i> , 2016, 90, 524-531.	3.3	5
104	Concentric dopant segregation in CVD-grown N-doped graphene single crystals. <i>Applied Surface Science</i> , 2018, 454, 121-129.	3.1	5
105	Imaging the defect distribution in 2D hexagonal boron nitride by tracing photogenerated electron dynamics. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 405106.	1.3	5
106	Nitrogen-mediated aligned growth of hexagonal BN films for reliable high-performance InSe transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4421-4431.	2.7	5
107	Versatile and scalable chemical vapor deposition of vertically aligned MoTe ₂ on reusable Mo foils. <i>Nano Research</i> , 2020, 13, 2371-2377.	5.8	5
108	A Flexible and Ultra-Wideband Terahertz Wave Absorber Based on Pyramid-Shaped Carbon Nanotube Array via Femtosecond Laser Microprocessing and Two-Step Transfer Technique. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5

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109	Vibratory response of diamond-like amorphous carbon cantilevers under different temperatures. <i>Diamond and Related Materials</i> , 2004, 13, 1980-1983.	1.8	4
110	Heat Dissipation Enhancement of 2.5D Package with 3D Graphene and 3D Boron Nitride Networks as Thermal Interface Material (TIM). , 2016, , .		4
111	Dielectric dispersion and superior thermal characteristics in isotope-enriched hexagonal boron nitride thin films: evaluation as thermally self-dissipating dielectrics for GaN transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9558-9568.	2.7	4
112	Self-assembled Ni nanoclusters in a diamond-like carbon matrix. <i>International Journal of Nanotechnology</i> , 2007, 4, 424.	0.1	3
113	Characterization of CNT interconnection bumps implemented for 1st level flip chip packaging. , 2011, , .		3
114	Thermal transport around tears in graphene. <i>Journal of Applied Physics</i> , 2011, 109, 043508-043508-6.	1.1	3
115	Microwave and Millimeter Wave Properties of Vertically-Aligned Single Wall Carbon Nanotubes Films. <i>Journal of Electronic Materials</i> , 2016, 45, 2433-2441.	1.0	3
116	Probing the Atomic Structures of Synthetic Monolayer and Bilayer Hexagonal Boron Nitride Using Electron Microscopy. <i>Applied Microscopy</i> , 2016, 46, 217-226.	0.8	3
117	3D Porous Graphene Films with Large Area In-Plane Exterior Skins. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	3
118	A hairy-polymer/3D-foam hybrid for flexible high performance thermal gap filling applications in harsh environments. <i>RSC Advances</i> , 2017, 7, 39292-39298.	1.7	2
119	Boron Nitride Coated Three-Dimensional Graphene as an Electrically Insulating Electromagnetic Interference Shield. , 2019, , .		2
120	Programmable morphing, electroactive porous shape memory polymer composites with battery-voltage Joule heating stimulated recovery. <i>APL Materials</i> , 2022, 10, 071109.	2.2	2
121	Thermal stability of nonhydrogenated multilayer amorphous carbon prepared by the filtered cathodic vacuum arc technique. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 421-424.	0.9	1
122	Microstructure and electrical properties of in-situ annealed carbon films. , 2010, , .		1
123	Foams: Configurable Three-Dimensional Boron Nitride-Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances (Small 15/2014). <i>Small</i> , 2014, 10, 2966-2966.	5.2	1
124	Reliability Studies of a Super-Durable 3-D-Foam-Based TIM for All Environments. <i>IEEE Transactions on Device and Materials Reliability</i> , 2018, 18, 273-278.	1.5	1
125	Carbon metal composite film deposited using novel Filtered Cathodic Vacuum Arc technique. , 2011, , .		0
126	Carbon based multi-functional materials towards 3D system integration. Application to thermal and interconnect management. , 2012, , .		0

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127	Formation of thick textured carbon film using filtered cathodic vacuum arc technique. , 2013, , .		0
128	The influence of titanium nitride barrier layer on the properties of CNT bundles. , 2013, , .		0
129	Growth of Carbon Nanotubes on Carbon/Cobalt Films with Different $\frac{sp^2}{sp^3}$ Ratios. Journal of Nanomaterials, 2013, 2013, 1-5.	1.5	0
130	Surface energy controlled growth of single crystalline two-dimensional hexagonal (h)-boron nitride. , 2014, , .		0
131	Laser writing of localized color centers in hexagonal boron nitrides monolayers. , 2017, , .		0
132	Anisotropic thermal conductivity of vertically self-ordered Nanocrystalline Boron Nitride thin films for thermal hotspot mitigation in electronics. , 2018, , .		0
133	Guest Editorial Special Section on the Second Electron Devices Technology and Manufacturing (EDTM) Conference 2019. IEEE Journal of the Electron Devices Society, 2019, 7, 1200-1200.	1.2	0
134	Formation of Thick Textured Carbon Film Using Filtered Cathodic Vacuum Arc Technique. Nanoscience and Nanotechnology Letters, 2013, 5, 912-915.	0.4	0
135	EXPERIMENTAL INVESTIGATION ON HIGH HEAT FLUX SPRAY COOLING USING WATER ON COATED AND STRUCTURED SURFACES. , 2018, , .		0