Beng Kang Tay

List of Publications by Year
in descending order

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536 papers	22,670 citations	13068 68 h-index	11899 134 g-index
543 all docs	543 docs citations	543 times ranked	26300 citing authors

#	Article	IF	Citations
1	From Bulk to Monolayer MoS₂: Evolution of Raman Scattering. Advanced Functional Materials, 2012, 22, 1385-1390.	7.8	3,354
2	Vertical and in-plane heterostructures from WS2/MoS2 monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
3	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe₂. ACS Nano, 2014, 8, 5125-5131.	7.3	694
4	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. Journal of Applied Physics, 2003, 94, 354-358.	1.1	385
5	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS₂. Advanced Functional Materials, 2016, 26, 1169-1177.	7.8	376
6	All Metal Nitrides Solidâ€State Asymmetric Supercapacitors. Advanced Materials, 2015, 27, 4566-4571.	11.1	371
7	Properties of carbon ion deposited tetrahedral amorphous carbon films as a function of ion energy. Journal of Applied Physics, 1996, 79, 7234-7240.	1.1	294
8	Electronic Properties of Bulk and Monolayer TMDs: Theoretical Study Within DFT Framework (GVJâ€2e) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	277
9	MoS₂/TiO₂ Edgeâ€On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2016, 6, 1600464.	10.2	264
10	High Mobility 2D Palladium Diselenide Fieldâ€Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	11.1	251
11	High-Performance Microsupercapacitors Based on Two-Dimensional Graphene/Manganese Dioxide/Silver Nanowire Ternary Hybrid Film. ACS Nano, 2015, 9, 1528-1542.	7.3	222
12	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. Journal of Applied Physics, 2003, 94, 1597-1604.	1.1	211
13	Correlation between the Melting Point of a Nanosolid and the Cohesive Energy of a Surface Atom. Journal of Physical Chemistry B, 2002, 106, 10701-10705.	1.2	208
14	Polycrystalline ZnO thin films on Si (100) deposited by filtered cathodic vacuum arc. Journal of Crystal Growth, 2001, 223, 201-205.	0.7	207
15	In situ fabrication of three-dimensional, ultrathin graphite/carbon nanotube/NiO composite as binder-free electrode for high-performance energy storage. Journal of Materials Chemistry A, 2015, 3, 624-633.	5.2	200
16	NO2 gas sensing with polyaniline nanofibers synthesized by a facile aqueous/organic interfacial polymerization. Sensors and Actuators B: Chemical, 2007, 123, 107-113.	4.0	188
17	Electromagnetic interference shielding effectiveness of carbon-based materials prepared by screen printing. Carbon, 2009, 47, 1905-1910.	5.4	185
18	Ultrasensitive 2D Bi₂O₂Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	11.1	183

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19	Mechanical properties and Raman spectra of tetrahedral amorphous carbon films with high sp³ fraction deposited using a filtered cathodic arc. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 351-361.	0.6	173
20	UV Raman characteristics of nanocrystalline diamond films with different grain size. Diamond and Related Materials, 2000, 9, 1979-1983.	1.8	165
21	A novel amperometric biosensor based on ZnO:Co nanoclusters for biosensing glucose. Biosensors and Bioelectronics, 2007, 23, 135-139.	5.3	165
22	Ultrafastâ€Charging Supercapacitors Based on Cornâ€Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	5.6	163
23	Engineering grain boundaries at theÂ2D limit for theÂhydrogen evolution reaction. Nature Communications, 2020, 11, 57.	5.8	153
24	Structural, electrical and optical properties of Al-doped ZnO thin films prepared by filtered cathodic vacuum arc technique. Journal of Crystal Growth, 2004, 268, 596-601.	0.7	150
25	Direct observation of ultrafast plasmonic hot electron transfer in the strong coupling regime. Light: Science and Applications, 2019, 8, 9.	7.7	150
26	Carbon nanotubeâ€“ZnO nanocomposite electrodes for supercapacitors. Solid State Ionics, 2009, 180, 1525-1528.	1.3	142
27	A three dimensional vertically aligned multiwall carbon nanotube/NiCo₂O₄core/shell structure for novel high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5100-5107.	5.2	142
28	Transparent and flexible glucose biosensor via layer-by-layer assembly of multi-wall carbon nanotubes and glucose oxidase. Electrochemistry Communications, 2007, 9, 1269-1275.	2.3	141
29	Stacking-Dependent Interlayer Coupling in Trilayer MoS₂ with Broken Inversion Symmetry. Nano Letters, 2015, 15, 8155-8161.	4.5	141
30	Preparation and characterization of copper oxide thin films deposited by filtered cathodic vacuum arc. Journal Physics D: Applied Physics, 2004, 37, 81-85.	1.3	137
31	Spin-Orbit Splitting in Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	2.9	137
32	Three-dimensional Ni(OH)2 nanoflakes/graphene/nickel foam electrode with high rate capability for supercapacitor applications. International Journal of Hydrogen Energy, 2014, 39, 7876-7884.	3.8	136
33	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. Journal of Materials Chemistry A, 2016, 4, 3754-3764.	5.2	136
34	Tribological properties and adhesive strength of DLC coatings prepared under different substrate bias voltages. Wear, 2001, 249, 433-439.	1.5	131
35	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. Journal of Crystal Growth, 2003, 259, 335-342.	0.7	129
36	Bond-orderÂbond-lengthÂbond-strength (bond-OLS) correlation mechanism for the shape-and-size dependence of a nanosolid. Journal of Physics Condensed Matter, 2002, 14, 7781-7795.	0.7	125

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37	Growth, structural, and magnetic properties of iron nitride thin films deposited by dc magnetron sputtering. Applied Surface Science, 2003, 220, 30-39.	3.1	120
38	Electrowetting Control of Cassie-to-Wenzel Transitions in Superhydrophobic Carbon Nanotube-Based Nanocomposites. ACS Nano, 2009, 3, 3031-3036.	7.3	120
39	Raman studies of tetrahedral amorphous carbon films deposited by filtered cathodic vacuum arc. Surface and Coatings Technology, 1998, 105, 155-158.	2.2	116
40	Tailoring MoS₂ Excitonâ€“Plasmon Interaction by Optical Spinâ€“Orbit Coupling. ACS Nano, 2017, 11, 1165-1171.	7.3	114
41	Carbon nanotubeâ€“zinc oxide electrode and gel polymer electrolyte for electrochemical supercapacitors. Journal of Alloys and Compounds, 2009, 480, L17-L19.	2.8	112
42	A binder-free CNT networkâ€“MoS₂ composite as a high performance anode material in lithium ion batteries. Chemical Communications, 2014, 50, 3338-3340.	2.2	111
43	Dimension, Strength, and Chemical and Thermal Stability of a Single Câ^'C Bond in Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 7544-7546.	1.2	109
44	Review of metal oxide films deposited by filtered cathodic vacuum arc technique. Materials Science and Engineering Reports, 2006, 52, 1-48.	14.8	109
45	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Lightâ€“Matter Interactions. Advanced Materials, 2015, 27, 7800-7808.	11.1	109
46	Fabrication of Carbon Nanotubeâ^'Polyaniline Composites via Electrostatic Adsorption in Aqueous Colloids. Journal of Physical Chemistry C, 2007, 111, 4125-4131.	1.5	107
47	Van der Waals pâ€“n Junction Based on an Organicâ€“Inorganic Heterostructure. Advanced Functional Materials, 2015, 25, 5865-5871.	7.8	98
48	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. Carbon, 2008, 46, 753-758.	5.4	97
49	Hard carbon nanocomposite films with low stress. Diamond and Related Materials, 2001, 10, 1082-1087.	1.8	91
50	Dispersing and Functionalizing Multiwalled Carbon Nanotubes in TiO2Sol. Journal of Physical Chemistry B, 2006, 110, 25844-25849.	1.2	91
51	Properties of fluorinated amorphous diamond like carbon films by PECVD. Applied Surface Science, 2003, 219, 228-237.	3.1	89
52	A p-n homojunction ZnO nanorod light-emitting diode formed by As ion implantation. Applied Physics Letters, 2008, 93, .	1.5	88
53	Substrate bias dependence of Raman spectra for TiN films deposited by filtered cathodic vacuum arc. Journal of Applied Physics, 2002, 92, 1845-1849.	1.1	87
54	Bond contraction and lone pair interaction at nitride surfaces. Journal of Applied Physics, 2001, 90, 2615-2617.	1.1	85

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55	Effect of film thickness on the stress and adhesion of diamond-like carbon coatings. Diamond and Related Materials, 2002, 11, 1643-1647.	1.8	84
56	Growth and characterization of zinc oxide nano/micro-fibers by thermal chemical reactions and vapor transport deposition in air. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 103-107.	1.3	84
57	Tribological characterisation of diamond-like carbon coatings on Coâ€“Crâ€“Mo alloy for orthopaedic applications. Surface and Coatings Technology, 2001, 146-147, 410-416.	2.2	83
58	An extended `quantum confinement' theory: surface-coordination imperfection modifies the entire band structure of a nanosolid. Journal Physics D: Applied Physics, 2001, 34, 3470-3479.	1.3	82
59	Abrupt Stress Induced Transformation in Amorphous Carbon Films with a Highly Conductive Transition Phase. Physical Review Letters, 2008, 100, 176101.	2.9	81
60	Coordination Imperfection Suppressed Phase Stability of Ferromagnetic, Ferroelectric, and Superconductive Nanosolids. Journal of Physical Chemistry B, 2004, 108, 1080-1084.	1.2	78
61	An Asymmetric Supercapacitor with Both Ultra-High Gravimetric and Volumetric Energy Density Based on 3D Ni(OH)₂/MnO₂@Carbon Nanotube and Activated Polyaniline-Derived Carbon. ACS Applied Materials & Interfaces, 2017, 9, 668-676.	4.0	78
62	Metal-containing amorphous carbon films for hydrophobic application. Thin Solid Films, 2001, 398-399, 110-115.	0.8	76
63	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. Chemical Physics Letters, 2003, 375, 113-118.	1.2	75
64	Thermal conductivity of individual multiwalled carbon nanotubes. International Journal of Thermal Sciences, 2012, 62, 40-43.	2.6	75
65	Refractive indices of textured indium tin oxide and zinc oxide thin films. Thin Solid Films, 2006, 510, 95-101.	0.8	74
66	Structural and tribological characterization of multilayer ta-C films prepared by filtered cathodic vacuum arc with substrate pulse biasing. Surface and Coatings Technology, 2000, 132, 228-232.	2.2	73
67	THE DOUBLE BEND FILTERED CATHODIC ARC TECHNOLOGY AND ITS APPLICATIONS. International Journal of Modern Physics B, 2000, 14, 136-153.	1.0	73
68	Transport of vacuum arc plasma through an off-plane double bend filtering duct. Thin Solid Films, 1999, 345, 1-6.	0.8	72
69	Thermal conductivity of titanium nitride/titanium aluminum nitride multilayer coatings deposited by lateral rotating cathode arc. Thin Solid Films, 2015, 578, 133-138.	0.8	72
70	Twinned Zn2TiO4 Spinel Nanowires Using ZnO Nanowires as a Template. Advanced Materials, 2007, 19, 1839-1844.	11.1	70
71	Enhanced field emission from injector-like ZnO nanostructures with minimized screening effect. Nanotechnology, 2007, 18, 135604.	1.3	68
72	High performance carbon nanotubeâ€“Si coreâ€“shell wires with a rationally structured core for lithium ion battery anodes. Nanoscale, 2013, 5, 1503.	2.8	66

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73	Localized emission from laser-irradiated defects in 2D hexagonal boron nitride. 2D Materials, 2018, 5, 015010.	2.0	65
74	Structural and mechanical properties of nitrogen ion implanted ultra high molecular weight polyethylene. Surface and Coatings Technology, 2001, 138, 33-38.	2.2	60
75	Periodically Aligned Si Nanopillar Arrays as Efficient Antireflection Layers for Solar Cell Applications. Nanoscale Research Letters, 2010, 5, 1721-1726.	3.1	60
76	Structural and optical properties of ZnO thin films produced by filtered cathodic vacuum arc. Thin Solid Films, 2001, 398-399, 244-249.	0.8	57
77	Resonant Raman scattering studies of Fano-type interference in boron doped diamond. Journal of Applied Physics, 2002, 92, 7253-7256.	1.1	56
78	Ultraviolet amplified spontaneous emission from zinc oxide ridge waveguides on silicon substrate. Applied Physics Letters, 2003, 83, 4288-4290.	1.5	56
79	Quenching of surface-exciton emission from ZnO nanocombs by plasma immersion ion implantation. Applied Physics Letters, 2007, 91, .	1.5	55
80	Ultraviolet and visible Raman studies of nitrogenated tetrahedral amorphous carbon films. Thin Solid Films, 2000, 366, 169-174.	0.8	54
81	Tribological characterization of surface modified UHMWPE against DLC-coated Coâ€“Crâ€“Mo. Surface and Coatings Technology, 2005, 190, 231-237.	2.2	54
82	The hysteresis phenomenon of the field emission from the graphene film. Applied Physics Letters, 2011, 99, 173104.	1.5	54
83	Large magnetic moment observed in Co-doped ZnO nanocluster-assembled thin films at room temperature. Applied Physics Letters, 2007, 90, 152502.	1.5	53
84	Carbon nanotube films prepared by thermal chemical vapor deposition at low temperature for field emission applications. Applied Physics Letters, 2001, 79, 1670-1672.	1.5	51
85	Mechanisms for the behavior of carbon films during annealing. Physical Review B, 2004, 70, .	1.1	51
86	Superhydrophobic amorphous carbon/carbon nanotube nanocomposites. Applied Physics Letters, 2009, 94, .	1.5	51
87	Microstructure and mechanical properties of nanocomposite amorphous carbon films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1390-1394.	0.9	50
88	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. Journal of Crystal Growth, 2003, 252, 265-269.	0.7	50
89	Room-temperature deposition of amorphous titanium dioxide thin film with high refractive index by a filtered cathodic vacuum arc technique. Applied Optics, 2004, 43, 1281.	2.1	50
90	Coating-boosted interfacial thermal transport for carbon nanotube array nano-thermal interface materials. Carbon, 2019, 145, 725-733.	5.4	50

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91	Dependence of electrical and optical properties of ZnO films on substrate temperature. Materials Science in Semiconductor Processing, 2001, 4, 617-620.	1.9	49
92	Size Dependence of the 2p-Level Shift of Nanosolid Silicon. Journal of Physical Chemistry B, 2003, 107, 5113-5115.	1.2	49
93	Raman spectroscopy study of DLC films prepared by RF plasma and filtered cathodic arc. Surface and Coatings Technology, 2007, 201, 6734-6736.	2.2	49
94	The structure of tetrahedral amorphous carbon thin films. Thin Solid Films, 1996, 290-291, 317-322.	0.8	48
95	Fabrication of silicon pyramid/nanowire binary structure with superhydrophobicity. Applied Surface Science, 2009, 255, 7147-7152.	3.1	48
96	Manipulating Coherent Lightâ€“Matter Interaction: Continuous Transition between Strong Coupling and Weak Coupling in MoS‹sub›2‹/sub› Monolayer Coupled with Plasmonic Nanocavities. Advanced Optical Materials, 2019, 7, 1900857.	3.6	48
97	Field emission from undoped and nitrogen-doped tetrahedral amorphous carbon film prepared by filtered cathodic vacuum arc technique. Diamond and Related Materials, 1998, 7, 640-644.	1.8	47
98	Resonant Raman studies of tetrahedral amorphous carbon films. Diamond and Related Materials, 2001, 10, 76-81.	1.8	47
99	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. Journal Physics D: Applied Physics, 2001, 34, 2359-2362.	1.3	47
100	Rapid fabrication of a novel Snâ€“Ge alloy: structureâ€“property relationship and its enhanced lithium storage properties. Journal of Materials Chemistry A, 2013, 1, 14577.	5.2	47
101	Enhanced thermoelectric properties of n-type Bi2Te2.7Se0.3 thin films through the introduction of Pt nanoinclusions by pulsed laser deposition. Nano Energy, 2014, 8, 223-230.	8.2	46
102	The effect of deposition conditions on the properties of TiN thin films prepared by filtered cathodic vacuum-arc technique. Surface and Coatings Technology, 1999, 111, 229-233.	2.2	45
103	Internal stress and surface morphology of zinc oxide thin films deposited by filtered cathodic vacuum arc technique. Thin Solid Films, 2004, 458, 15-19.	0.8	44
104	Feasibility of diamond-like carbon coatings for orthopaedic applications. Diamond and Related Materials, 2004, 13, 184-190.	1.8	44
105	Fabrication of Three-Dimensional ZnOâˆ'Carbon Nanotube (CNT) Hybrids Using Self-Assembled CNT Micropatterns as Framework. Journal of Physical Chemistry C, 2007, 111, 17254-17259.	1.5	44
106	A Carbon Nanomattress: A New Nanosystem with Intrinsic, Tunable, Damping Properties. Advanced Materials, 2007, 19, 2941-2945.	11.1	44
107	Spectroscopic ellipsometry studies of tetrahedral amorphous carbon prepared by filtered cathodic vacuum arc technique. Thin Solid Films, 1998, 312, 160-169.	0.8	43
108	Electron field emission properties of tetrahedral amorphous carbon films. Journal of Applied Physics, 1999, 85, 6816-6821.	1.1	43

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109	Photoluminescence of Si Nanosolids near the Lower End of the Size Limit. Journal of Physical Chemistry B, 2002, 106, 11725-11727.	1.2	43
110	Upper limit of blue shift in the photoluminescence of CdSe and CdS nanosolids. Acta Materialia, 2002, 50, 4687-4693.	3.8	43
111	Tribological characterization of diamond-like carbon (DLC) coatings sliding against DLC coatings. Diamond and Related Materials, 2003, 12, 1389-1395.	1.8	42
112	Simulation of plasma flow in toroidal solenoid filters. IEEE Transactions on Plasma Science, 1996, 24, 1309-1318.	0.6	41
113	Micro-Raman spectroscopic analysis of tetrahedral amorphous carbon films deposited under varying conditions. Journal of Applied Physics, 1999, 86, 6078-6083.	1.1	41
114	Blue electroluminescence from tris-(8-hydroxyquinoline) aluminum thin film. Chemical Physics Letters, 2000, 325, 420-424.	1.2	41
115	Low stress thick diamond-like carbon films prepared by filtered arc deposition for tribological applications. Surface and Coatings Technology, 2002, 154, 289-293.	2.2	41
116	Coreâ€“shell CNTâ€“Niâ€“Si nanowires as a high performance anode material for lithium ion batteries. Carbon, 2013, 63, 54-60.	5.4	41
117	Theoretical study of defect impact on two-dimensional MoS₂. Journal of Semiconductors, 2015, 36, 122002.	2.0	41
118	Tribological behaviour of different diamond-like carbon materials. Surface and Coatings Technology, 1998, 106, 72-80.	2.2	40
119	The effect of nitrogen on the mechanical properties of tetrahedral amorphous carbon films deposited with a filtered cathodic vacuum arc. Surface and Coatings Technology, 1999, 120-121, 601-606.	2.2	40
120	Breaking limit of atomic distance in an impurity-free monatomic chain. Physical Review B, 2004, 69, .	1.1	40
121	Dielectric suppression of nanosolid silicon. Nanotechnology, 2004, 15, 1802-1806.	1.3	40
122	Phonon localization around vacancies in graphene nanoribbons. Diamond and Related Materials, 2012, 23, 88-92.	1.8	40
123	MoS₂/Rubrene van der Waals Heterostructure: Toward Ambipolar Fieldâ€Effect Transistors and Inverter Circuits. Small, 2017, 13, 1602558.	5.2	40
124	Ultraviolet lasing of ZnO whiskers prepared by catalyst-free thermal evaporation. Chemical Physics Letters, 2003, 377, 329-332.	1.2	39
125	Electronic transport properties of nitrogen doped amorphous carbon films deposited by the filtered cathodic vacuum arc technique. Journal of Physics Condensed Matter, 1998, 10, 9293-9302.	0.7	38
126	Modulating the work function of carbon by N or O addition and nanotip fabrication. Solid State Communications, 2003, 128, 381-384.	0.9	38

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127	Synthesis of silicon carbide nitride nanocomposite films by a simple electrochemical method. Electrochemistry Communications, 2006, 8, 737-740.	2.3	38
128	Length, Strength, Extensibility, and Thermal Stability of a Auâˆ'Au Bond in the Gold Monatomic Chain. Journal of Physical Chemistry B, 2004, 108, 2162-2167.	1.2	37
129	Optical properties of nanocluster-assembled ZnO thin films by nanocluster-beam deposition. Applied Physics Letters, 2005, 87, 251912.	1.5	37
130	Revealing the surface origin of green band emission from ZnO nanostructures by plasma immersion ion implantation induced quenching. Journal of Applied Physics, 2008, 103, .	1.1	37
131	On the properties of nanocomposite amorphous carbon films prepared by off-plane double bend filtered cathodic vacuum arc. Thin Solid Films, 2002, 420-421, 177-184.	0.8	36
132	Fluorinated amorphous diamond-like carbon films deposited by plasma-enhanced chemical vapor deposition. Surface and Coatings Technology, 2005, 191, 236-241.	2.2	36
133	Electron field emission from surface treated tetrahedral amorphous carbon films. Applied Physics Letters, 1999, 74, 833-835.	1.5	35
134	Mechanical and tribological characterization of diamond-like carbon coatings on orthopedic materials. Diamond and Related Materials, 2001, 10, 1043-1048.	1.8	35
135	Structural and electrical properties of copper thin films prepared by filtered cathodic vacuum arc technique. Surface and Coatings Technology, 2001, 138, 250-255.	2.2	35
136	A Highâ€Performance Anode Material for Liâ€Ion Batteries Based on a Vertically Aligned CNTs/NiCo₂O₄ Core/Shell Structure. Particle and Particle Systems Characterization, 2014, 31, 1151-1157.	1.2	35
137	Investigation of tetrahedral amorphous carbon films using x-ray photoelectron and Raman spectroscopy. Surface and Interface Analysis, 1999, 28, 231-234.	0.8	34
138	Niâ€“NiO core-shell nanoclusters with cubic shape by nanocluster beam deposition. Applied Physics Letters, 2007, 90, 043111.	1.5	34
139	Plasma density induced formation of nanocrystals in physical vapor deposited carbon films. Carbon, 2011, 49, 1733-1744.	5.4	34
140	Surface energy of metal containing amorphous carbon films deposited by filtered cathodic vacuum arc. Diamond and Related Materials, 2004, 13, 459-464.	1.8	33
141	Band-gap expansion, core-level shift, and dielectric suppression of porous silicon passivated by plasma fluorination. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 583.	1.6	33
142	Atomistic origin and temperature dependence of Raman optical redshift in nanostructures: a broken bond rule. Journal of Raman Spectroscopy, 2007, 38, 780-788.	1.2	33
143	Design and Implementation of Ternary Logic Integrated Circuits by Using Novel Two-Dimensional Materials. Applied Sciences (Switzerland), 2019, 9, 4212.	1.3	33
144	Properties and structures of diamond-like carbon film deposited using He, Ne, Ar/methane mixture by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2000, 87, 8122-8131.	1.1	32

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145	Raman spectroscopy of carbon nitride films deposited using the filtered cathodic vacuum-arc technique combined with a radio-frequency nitrogen-ion beam. Applied Physics A: Materials Science and Processing, 2001, 73, 341-345.	1.1	32
146	Surface energy of amorphous carbon films containing iron. Journal of Applied Physics, 2001, 89, 7814-7819.	1.1	32
147	Structural and mechanical properties of Ti-containing diamond-like carbon films deposited by filtered cathodic vacuum arc. Thin Solid Films, 2002, 408, 183-187.	0.8	32
148	On stress reduction of tetrahedral amorphous carbon films for moving mechanical assemblies. Diamond and Related Materials, 2003, 12, 185-194.	1.8	32
149	Microstructural and optical properties of aluminum oxide thin films prepared by off-plane filtered cathodic vacuum arc system. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 906-910.	0.9	32
150	Study of mechanical properties and stress of tetrahedral amorphous carbon films prepared by pulse biasing. Surface and Coatings Technology, 2005, 195, 338-343.	2.2	32
151	Effects of substrate temperature on the properties of tetrahedral amorphous carbon films. Thin Solid Films, 1999, 346, 155-161.	0.8	31
152	Effect of frequency and pulse width on the properties of ta:C films prepared by FCVA together with substrate pulse biasing. Thin Solid Films, 2002, 420-421, 62-69.	0.8	31
153	Study of surface energy of tetrahedral amorphous carbon films modified in various gas plasma. Diamond and Related Materials, 2003, 12, 2072-2076.	1.8	31
154	Electron emission of carbon nitride films and mechanism for the nitrogen-lowered threshold in cold cathode. Journal of Applied Physics, 2003, 94, 2741-2745.	1.1	31
155	On the deposition mechanism of a-C:H films by plasma enhanced chemical vapor deposition. Surface and Coatings Technology, 2000, 135, 27-33.	2.2	30
156	Development of texture in TiN films deposited by filtered cathodic vacuum arc. Journal of Crystal Growth, 2003, 252, 257-264.	0.7	30
157	Study of the structure and optical properties of nanocrystalline zirconium oxide thin films deposited at low temperatures. Journal Physics D: Applied Physics, 2004, 37, 1701-1705.	1.3	30
158	Formation and assembly of carbon nanotube bumps for interconnection applications. Diamond and Related Materials, 2009, 18, 1109-1113.	1.8	30
159	Preferential orientation of titanium carbide films deposited by a filtered cathodic vacuum arc technique. Surface and Coatings Technology, 2001, 138, 301-306.	2.2	29
160	Influence of substrate bias on the structure and properties of (Ti,â€ŠAl)N films deposited by filtered cathodic vacuum arc. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 736-742.	0.9	29
161	Effects of N ion energy on titanium nitride films deposited by ion assisted filtered cathodic vacuum arc. Chemical Physics Letters, 2003, 374, 264-270.	1.2	29
162	A comparative study between pure and Al-containing amorphous carbon films prepared by FCVA technique together with high substrate pulse biasing. Diamond and Related Materials, 2003, 12, 2032-2036.	1.8	29

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163	Fabrication of ITO thin films by filtered cathodic vacuum arc deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 106, 300-304.	1.7	29
164	Optical properties of titania films prepared by off-plane filtered cathodic vacuum arc. Journal of Crystal Growth, 2004, 268, 543-546.	0.7	29
165	Field emission enhancement and microstructural changes of carbon films by single pulse laser irradiation. Carbon, 2011, 49, 1018-1024.	5.4	29
166	Mesoscopic Model for the Electromagnetic Properties of Arrays of Nanotubes and Nanowires: A Bulk Equivalent Approach. IEEE Nanotechnology Magazine, 2012, 11, 964-974.	1.1	29
167	Carbon nanotube bumps for the flip chip packaging system. Nanoscale Research Letters, 2012, 7, 105.	3.1	29
168	Novel three-dimensional carbon nanotube networks as high performance thermal interface materials. Carbon, 2018, 132, 359-369.	5.4	29
169	Field emission from modified nanocomposite carbon films prepared by filtered cathodic vacuum arc at high negative pulsed bias. Applied Surface Science, 2003, 214, 351-358.	3.1	28
170	Structural properties and nanoindentation of AlN films by a filtered cathodic vacuum arc at low temperature. Journal Physics D: Applied Physics, 2004, 37, 1472-1477.	1.3	28
171	Multilayer assembly of positively charged polyelectrolyte and negatively charged glucose oxidase on a 3D Nafion network for detecting glucose. Biosensors and Bioelectronics, 2007, 22, 3256-3260.	5.3	28
172	Influence of deposition temperature on the structure and internal stress of TiN films deposited by filtered cathodic vacuum arc. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1270-1274.	0.9	27
173	Optical properties of aluminium oxide thin films prepared at room temperature by off-plane filtered cathodic vacuum arc system. Thin Solid Films, 2004, 447-448, 14-19.	0.8	27
174	Synthesis, morphology and random laser action of ZnO nanostructures. Surface Science, 2007, 601, 2660-2663.	0.8	27
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