Brad R Weiner

List of Publications by Year
in descending order

51 papers	1,079 citations	361413 20 h-index	414414 32 g-index
51 all docs	51 docs citations	51 times ranked	2126 citing authors

#	Article	IF	Citations
1	Luminescent graphene quantum dots fabricated by pulsed laser synthesis. Carbon, 2013, 64, 341-350.	10.3	134
2	L-cysteine capped ZnS:Mn quantum dots for room-temperature detection of dopamine with high sensitivity and selectivity. Biosensors and Bioelectronics, 2017, 87, 693-700.	10.1	112
3	Growth and field emission study of a monolithic carbon nanotube/diamond composite. Carbon, 2010, 48, 3353-3358.	10.3	50
4	Enhanced MRI T 2 Relaxivity in Contrast-Probed Anchor-Free PEGylated Iron Oxide Nanoparticles. Nanoscale Research Letters, 2017, 12, 312.	5.7	49
5	Free standing graphene-diamond hybrid films and their electron emission properties. Journal of Applied Physics, 2011, 110, .	2.5	45
6	Highly-crystalline Î³-MnS nanosaws. RSC Advances, 2014, 4, 38103-38110.	3.6	40
7	Improving cytotoxicity against cancer cells by chemo-photodynamic combined modalities using silver-graphene quantum dots nanocomposites. International Journal of Nanomedicine, 2016, 11, 107.	6.7	40
8	Solar-blind field-emission diamond ultraviolet detector. Applied Physics Letters, 2015, 107, .	3.3	38
9	Grain size-dependent thermal conductivity of polycrystalline twisted bilayer graphene. Carbon, 2017, 117, 367-375.	10.3	38
10	Graphene Oxide/ZnS:Mn Nanocomposite Functionalized with Folic Acid as a Nontoxic and Effective Theranostic Platform for Breast Cancer Treatment. Nanomaterials, 2018, 8, 484.	4.1	37
11	Stability of the Mn photoluminescence in bifunctional ZnS:0.05Mn nanoparticles. Journal of Applied Physics, 2013, 114, .	2.5	34
12	Biocompatible ZnS:Mn quantum dots for reactive oxygen generation and detection in aqueous media. Journal of Nanoparticle Research, 2015, 17, 461.	1.9	32
13	T₁- and T₂-weighted Magnetic Resonance Dual Contrast by Single Core Truncated Cubic Iron Oxide Nanoparticles with Abrupt Cellular Internalization and Immune Evasion. ACS Applied Bio Materials, 2018, 1, 79-89.	4.6	32
14	Bifunctional Fe3O4/ZnS:Mn composite nanoparticles. Materials Letters, 2013, 98, 108-111.	2.6	28
15	Catalytic effect of ultrananocrystalline Fe₃O₄on algal bio-crude productionviaHTL process. Nanoscale, 2015, 7, 17664-17671.	5.6	28
16	A graphene integrated highly transparent resistive switching memory device. APL Materials, 2018, 6, .	5.1	26
17	Unipolar resistive switching in planar Pt/BiFeO3/Pt structure. AIP Advances, 2015, 5, .	1.3	25
18	Large-area bilayer graphene synthesis in the hot filament chemical vapor deposition reactor. Diamond and Related Materials, 2015, 51, 34-38.	3.9	23

#	Article	IF	Citations
19	Thermionic emission energy distribution from nanocrystalline diamond films for direct thermal-electrical energy conversion applications. Journal of Applied Physics, 2009, 106, 043716.	2.5	22
20	Temporal field emission current stability and fluctuations from graphene films. Applied Physics Letters, 2010, 97, .	3.3	20
21	A Novel Approach to the Layer-Number-Controlled and Grain-Size-Controlled Growth of High Quality Graphene for Nanoelectronics. ACS Applied Nano Materials, 2018, 1, 1502-1512.	5.0	20
22	Novel magneto-luminescent effect in LSMO/ZnS:Mn nanocomposites at near-room temperature. Nanotechnology, 2016, 27, 085703.	2.6	17
23	Gaussian-2 theoretical and direct ab initio molecular dynamics study of the reaction of O(3P) with thiirane, O(3P)+C2H4S(1A1)â†'SO(3Î£-)+C2H4(1Ag). Physical Chemistry Chemical Physics, 2000, 2, 869-876.	2.8	16
24	Synthesis, Optical, and Magnetic Properties of Graphene Quantum Dots and Iron Oxide Nanocomposites. Advances in Materials Science and Engineering, 2018, 2018, 1-8.	1.8	16
25	Effects of heavy-ion radiation on the electron field emission properties of sulfur-doped nanocomposite carbon films. Diamond and Related Materials, 2004, 13, 221-225.	3.9	14
26	Effects of a nanocomposite carbon buffer layer on the field emission properties of multiwall carbon nanotubes and nanofibers grown by hot filament chemical vapor deposition. Journal of Vacuum Science & Technology B, 2006, 24, 639.	1.3	14
27	Semiconductor-homojunction induction in single-crystal GaN nanostructures under a transverse electric field:Ab initiocalculations. Physical Review B, 2010, 81, .	3.2	13
28	Fabrication and field emission study of novel rod-shaped diamond-like carbon nanostructures. Nanotechnology, 2010, 21, 285301.	2.6	13
29	Study on the optical and electrical properties of tetracyanoethylene doped bilayer graphene stack for transparent conducting electrodes. AIP Advances, 2016, 6, 035319.	1.3	11
30	Chemical model for mid-summer lidar observations of mesospheric potassium over the Arecibo Observatory. Geophysical Research Letters, 2006, 33, .	4.0	9
31	Study of the temporal current stability of field-emitted electrons from ultrananocrystalline diamond films. Journal of Applied Physics, 2008, 103, 104315.	2.5	9
32	Ultraviolet photosensitivity of sulfur-doped micro- and nano-crystalline diamond. Journal of Applied Physics, 2011, 109, .	2.5	9
33	Detection of SH and CS radicals by cavity ringdown spectroscopy in a hot filament chemical vapor deposition environment. Chemical Physics Letters, 2008, 455, 26-31.	2.6	7
34	Binder Free SnO₂-CNT Composite as Anode Material for Li-Ion Battery. Journal of Nanotechnology, 2014, 2014, 1-9.	3.4	7
35	Synthesis, Characterization and Fabrication of Graphene/Boron Nitride Nanosheets Heterostructure Tunneling Devices. Nanomaterials, 2019, 9, 925.	4.1	7
36	Synthesis micro-scale boron nitride nanotubes at low substrate temperature. AIP Advances, 2016, 6, 075110.	1.3	6

#	Article	IF	Citations
37	Magnetic Control of the Manganese Photoluminescence in Fe₃O₄/<scp>l</scp>-Cys ZnS:Mn Nanocomposites. ACS Omega, 2021, 6, 7598-7604.	3.5	6
38	Field emission stability and properties of simultaneously grown microcrystalline diamond and carbon nanostructure films. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1202-1205.	1.2	5
39	New route to the fabrication of nanocrystalline diamond films. Journal of Applied Physics, 2014, 115, 054304.	2.5	5
40	Bimolecular Reaction Dynamics of Thiophosgene with O(3P) Atoms. Journal of Physical Chemistry A, 1997, 101, 8587-8592.	2.5	4
41	PENNING DISCHARGE PLASMA SOURCE AND ITS APPLICATION TO SYNTHESIS OF NANOSTRUCTURED AlN FILMS. International Journal of Modern Physics B, 2006, 20, 445-454.	2.0	4
42	Probing the structural, crystalline, and electrical properties of carbon nanotubes grown on nickel filled carbon nanofibers. Applied Physics Letters, 2009, 95, 061906.	3.3	4
43	Oxidized SWCNT chemically attached to a modified copper substrate. Applied Surface Science, 2015, 346, 415-422.	6.1	3
44	Graphene Growth Directly on SiO2/Si by Hot Filament Chemical Vapor Deposition. Nanomaterials, 2022, 12, 109.	4.1	3
45	Experimental and Theoretical Studies of the Reaction of Al Atoms with OCS and CS2. Journal of Physical Chemistry A, 1997, 101, 9111-9117.	2.5	2
46	The 193 nm photodissociation of borazine. Chemical Physics Letters, 2011, 509, 108-113.	2.6	1
47	Observation of the C 2 H radical using (1 + 2) REMPI via theBÌƒ2Aâ€²â†ŽÌƒ2Î£+transition. Chemical Physics, 2016, 479, 91-98.	1.9	1
48	Parallel Bias-Enhanced Sulfur-Assisted Chemical Vapor Deposition of Nanocrystalline Diamond Films. Materials Research Society Symposia Proceedings, 2003, 775, 9541.	0.1	0
49	Secondary electron emission from nanocomposite carbon films. Journal of Materials Science: Materials in Electronics, 2009, 20, 996-1000.	2.2	0
50	Study of the Effects of Heavy-Ion Radiation on Nanocomposite Carbon Films. Materials Research Society Symposia Proceedings, 2003, 777, 881.	0.1	0
51	Improvement of Specific Capacitance in Lithium Ion Batteries By Mesoporous Carbon Hybrid Nanostructures. ECS Meeting Abstracts, 2017, , .	0.0	0