Wolfgang S Bacsa

List of Publications by Year
in descending order

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74 papers	3,022 citations	218592 26 h-index	161767 54 g-index
76 all docs	76 docs citations	76 times ranked	3828 citing authors

#	Article	IF	Citations
1	Proton-Conducting Polymer Wrapped Cathode Catalyst for Enhancing Triple-Phase Boundaries in Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2022, 5, 627-638.	2.5	3
2	Embedded carbon nanotubes on surface of thermoplastic poly(ether ether ketone). Polymer, 2021, 226, 123807.	1.8	0
3	Optimizing metal-support interphase for efficient fuel cell oxygen reduction reaction catalyst. Journal of Colloid and Interface Science, 2020, 561, 439-448.	5.0	13
4	Optical Interference Near Surfaces: Interference Substrates. SpringerBriefs in Physics, 2020, , 9-31.	0.2	0
5	Intermediate Field and a Single Point Scatterer on a Surface. SpringerBriefs in Physics, 2020, , 33-50.	0.2	0
6	Sizeâ€controlled grapheneâ€based materials prepared by annealing of pitchâ€based cokes: G band phonon line broadening effects due to high pressure, crystallite size, and merging with Dâ€² band. Journal of Raman Spectroscopy, 2019, 50, 1861-1866.	1.2	8
7	Chemoselective reduction of quinoline over Rhâ€“C₆₀ nanocatalysts. Catalysis Science and Technology, 2019, 9, 6884-6898.	2.1	16
8	Continuous approximation for interaction energy of adamantane encapsulated inside carbon nanotubes. Chemical Physics Letters, 2018, 693, 34-39.	1.2	1
9	Raman Spectral Band Oscillations in Large Graphene Bubbles. Physical Review Letters, 2018, 120, 186104.	2.9	43
10	Reversibility of defect formation during oxygenâ€assisted electronâ€beamâ€induced etching of graphene. Journal of Raman Spectroscopy, 2018, 49, 317-323.	1.2	3
11	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. Chemistry of Materials, 2017, 29, 4546-4556.	3.2	63
12	Sodide and Organic Halides Effect Covalent Functionalization of Single-Layer and Bilayer Graphene. Journal of the American Chemical Society, 2017, 139, 4202-4210.	6.6	27
13	Achieving high strength and high ductility in metal matrix composites reinforced with a discontinuous three-dimensional graphene-like network. Nanoscale, 2017, 9, 11929-11938.	2.8	126
14	Synthesis and structure of ruthenium-fullerides. RSC Advances, 2016, 6, 69135-69148.	1.7	22
15	Birch-Type Hydrogenation of Few-Layer Graphenes: Products and Mechanistic Implications. Journal of the American Chemical Society, 2016, 138, 14980-14986.	6.6	27
16	Few layer graphene synthesis on transition metal ferrite catalysts. Carbon, 2015, 89, 350-360.	5.4	32
17	Relating elasticity and graphene folding conformation. RSC Advances, 2015, 5, 57515-57520.	1.7	20
18	Origin of mechanical modifications in poly (ether ether ketone)/carbon nanotube composite. Journal of Applied Physics, 2014, 115, .	1.1	5

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19	The effect of twin screw extrusion on structural, electrical, and rheological properties in carbon nanotube polyâ€etherâ€etherâ€ketone nanocomposites. Journal of Applied Polymer Science, 2013, 129, 2527-2535.	1.3	12
20	Uniform dispersion of nanotubes in thermoplastic polymer through thermal annealing. Carbon, 2013, 53, 399-402.	5.4	8
21	The preparation of carbon nanotube (CNT)/copper composites and the effect of the number of CNT walls on their hardness, friction and wear properties. Carbon, 2013, 58, 185-197.	5.4	105
22	Optical Interference Substrates for Nanoparticles and Two-Dimensional Materials. Nanomaterials and Nanotechnology, 2013, 3, 22.	1.2	7
23	Apparent Raman spectral shifts from nano-structured surfaces. Applied Physics Letters, 2012, 100, 173105.	1.5	1
24	Charge transfer between carbon nanotubes and sulfuric acid as determined by Raman spectroscopy. Physical Review B, 2012, 85, .	1.1	24
25	Comparative Raman spectroscopy of individual and bundled double wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 974-979.	0.7	3
26	Electrical conductivity and Raman imaging of double wall carbon nanotubes in a polymer matrix. Composites Science and Technology, 2011, 71, 1326-1330.	3.8	29
27	Random resolution. Nature Nanotechnology, 2011, 6, 335-336.	15.6	1
28	Double Wall Carbon Nanotubes as a Molecular Sensor in Polymer Composites. , 2010, , .		0
29	Introduction to Carbon Nanotubes. , 2010, , 47-118.		26
30	Synthesis and Structureâ€“Property Correlation in Shapeâ€Controlled ZnO Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2009, 19, 875-886.	7.8	67
31	Intense Raman bands and low luminescence of thin films of heme proteins on silica. Chemical Physics Letters, 2009, 478, 66-69.	1.2	2
32	Raman<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math>band in strongly photoexcited carbon nanotubes. Physical Review B, 2009, 79, .	1.1	7
33	Influence of nitrogen doping on the radial breathing mode in carbon nanotubes. Physical Review B, 2009, 79, .	1.1	22
34	Spectroscopic Properties Unique to Nano-Emitters. Nano Letters, 2008, 8, 4330-4334.	4.5	6
35	RamanGband in double-wall carbon nanotubes combiningpdoping and high pressure. Physical Review B, 2008, 78, .	1.1	27
36	Ultraviolet photon absorption in single- and double-wall carbon nanotubes and peapods: Heating-induced phonon line broadening, wall coupling, and transformation. Physical Review B, 2007, 76, .	1.1	9

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37	Large scale synthesis of zinc oxide nanorods by homogeneous chemical vapour deposition and their characterisation. Surface and Coatings Technology, 2007, 201, 9200-9204.	2.2	33
38	Nanoscale needle shaped histidine and narrow vibrational Raman bands using visible excitation. Chemical Physics Letters, 2007, 439, 360-363.	1.2	1
39	Thermal transfer in SWNTs and peapods under UV-irradiation. Physica Status Solidi (B): Basic Research, 2007, 244, 4064-4068.	0.7	2
40	Introduction to Carbon Nanotubes. , 2007, , 43-112.		25
41	Tunable Resonant Raman Scattering From Singly Resonant Single Wall Carbon Nanotubes. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1083-1090.	1.9	11
42	Controlled laser heating of carbon nanotubes. Applied Physics Letters, 2006, 88, 173113.	1.5	47
43	Local optical field variation in the neighborhood of a semiconductor micrograting. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 893.	0.9	4
44	Laser Induced Modifications of Carbon Nanotube Composite Surfaces. Japanese Journal of Applied Physics, 2006, 45, 7776-7779.	0.8	1
45	Inelastic light scattering of hydrogen containing open-cage fullerene ATOCF. Physica Status Solidi (B): Basic Research, 2005, 242, R106-R108.	0.7	11
46	Spectroscopic detection of carbon nanotube interaction with amphiphilic molecules in epoxy resin composites. Journal of Applied Physics, 2005, 97, 034303.	1.1	26
47	Light scattering of double wall carbon nanotubes under hydrostatic pressure: pressure effects on the internal and external tubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3360-3366.	0.7	14
48	Raman spectroscopy with UV excitation on untwinned single crystals of YBa2Cu3O7â€“Î´. Physica Status Solidi (B): Basic Research, 2004, 241, R63-R66.	0.7	4
49	CCVD synthesis of carbon nanotubes from (Mg,Co,Mo)O catalysts: influence of the proportions of cobalt and molybdenum. Journal of Materials Chemistry, 2004, 14, 646.	6.7	75
50	Narrow diameter double-wall carbon nanotubes: synthesis, electron microscopy and inelastic light scattering. New Journal of Physics, 2003, 5, 131-131.	1.2	30
51	High specific surface area carbon nanotubes from catalytic chemical vapor deposition process. Chemical Physics Letters, 2000, 323, 566-571.	1.2	186
52	Anisotropic electron-phonon coupling inÎ±â€²â^'NaV2O5. Physical Review B, 2000, 61, R14885-R14888.	1.1	9
53	Interference Scanning Optical Probe Microscopy: Principles and Applications. Advances in Imaging and Electron Physics, 1999, 110, 1-19.	0.1	3
54	Blue organic light emitting diodes based on bicarbazyle derivates: Device stability and multilayer configuration. Journal of Applied Physics, 1998, 84, 5733-5738.	1.1	24

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55	‹title›Coherent photon imaging in near-field optics‹/title›. , 1998, 3467, 18.		0
56	Interference scanning optical probe microscopy. Applied Physics Letters, 1997, 70, 3507-3509.	1.5	11
57	Hall effect and magnetoresistance of carbon nanotube films. Physical Review B, 1997, 55, 6704-6707.	1.1	87
58	ESR study of potassium-doped aligned carbon nanotubes. Physical Review B, 1996, 53, 13996-13999.	1.1	32
59	Evidence of anisotropic metallic behaviour in the optical properties of carbon nanotubes. Solid State Communications, 1996, 99, 513-517.	0.9	75
60	Microstructural properties of silicon powder produced in a low pressure silane discharge. Journal of Applied Physics, 1995, 77, 3729-3733.	1.1	11
61	Magnetic anisotropies of aligned carbon nanotubes. Physical Review B, 1995, 52, R6963-R6966.	1.1	123
62	Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties. Science, 1995, 268, 845-847.	6.0	706
63	High-resolution electron microscopy and inelastic light scattering of purified multishelled carbon nanotubes. Physical Review B, 1994, 50, 15473-15476.	1.1	151
64	Photon-induced intermolecular coupling in ultrathinC60films. Physical Review B, 1994, 49, 14750-14753.	1.1	9
65	Raman spectroscopy of closed-shell carbon particles. Chemical Physics Letters, 1993, 211, 346-352.	1.2	103
66	Raman scattering of laser-deposited amorphous carbon. Physical Review B, 1993, 47, 10931-10934.	1.1	124
67	Bilayer interference enhanced Raman spectroscopy. Applied Physics Letters, 1992, 61, 19-21.	1.5	44
68	Surface-enhanced Raman scattering and photoemission ofC60on noble-metal surfaces. Physical Review B, 1992, 46, 7873-7877.	1.1	158
69	Silicon heteroepitaxy: interface structure and physical properties. Journal of Crystal Growth, 1991, 111, 889-896.	0.7	5
70	‹title›Interface structural characterization of strained-layer (001) SimGen superlattices by Raman spectroscopy‹/title›. , 1990, 1284, 195.		1
71	Electronic structure of YbN. Physical Review B, 1990, 42, 530-539.	1.1	56
72	strained-layer superlattices on Si(100), (100) and Si1â^'xGex/Si(100). Superlattices and Microstructures, 1989, 5, 71-77.	1.4	26

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73	Confined phonons in strained short-period (001) Si/Ge superlattices. Thin Solid Films, 1989, 183, 65-70.	0.8	4
74	Inelastic light scattering from strained-layer superlattices. Superlattices and Microstructures, 1988, 4, 717-721.	1.4	11