

Florian Banhart

List of Publications by Citations

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174
papers

14,475
citations

53
h-index

119
g-index

182
ext. papers

15,522
ext. citations

7.9
avg, IF

6.77
L-index

#	Paper	IF	Citations
174	Structural defects in graphene. <i>ACS Nano</i> , 2011 , 5, 26-41	16.7	2388
173	Irradiation effects in carbon nanostructures. <i>Reports on Progress in Physics</i> , 1999 , 62, 1181-1221	14.4	897
172	Spongy Graphene as a Highly Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Advanced Functional Materials</i> , 2012 , 22, 4421-4425	15.6	833
171	Engineering of nanostructured carbon materials with electron or ion beams. <i>Nature Materials</i> , 2007 , 6, 723-33	27	829
170	Carbon onions as nanoscopic pressure cells for diamond formation. <i>Nature</i> , 1996 , 382, 433-435	50.4	603
169	Molecular junctions by joining single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2002 , 89, 075505	7.4	584
168	Coalescence of single-walled carbon nanotubes. <i>Science</i> , 2000 , 288, 1226-9	33.3	425
167	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, 355-361	2.6	367
166	One- and two-dimensional diffusion of metal atoms in graphene. <i>Small</i> , 2008 , 4, 587-91	11	344
165	Migration and localization of metal atoms on strained graphene. <i>Physical Review Letters</i> , 2010 , 105, 196102	10.2	281
164	Trapping of metal atoms in vacancies of carbon nanotubes and graphene. <i>ACS Nano</i> , 2010 , 4, 3422-8	16.7	244
163	Carbon nanotubes as high-pressure cylinders and nanoextruders. <i>Science</i> , 2006 , 312, 1199-202	33.3	243
162	Primary radiation damage: A review of current understanding and models. <i>Journal of Nuclear Materials</i> , 2018 , 512, 450-479	3.3	208
161	Micellar Nanoreactors Preparation and Characterization of Hexagonally Ordered Arrays of Metallic Nanodots. <i>Advanced Functional Materials</i> , 2003 , 13, 853-861	15.6	203
160	In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007 , 2, 307-11	28.7	195
159	The Formation of a Connection between Carbon Nanotubes in an Electron Beam. <i>Nano Letters</i> , 2001 , 1, 329-332	11.5	182
158	Low temperature casting of graphene with high compressive strength. <i>Advanced Materials</i> , 2012 , 24, 5124-9, 5123	24	179

157	Interactions between metals and carbon nanotubes: at the interface between old and new materials. <i>Nanoscale</i> , 2009 , 1, 201-13	7.7	174
156	Electrical transport measured in atomic carbon chains. <i>Nano Letters</i> , 2013 , 13, 3487-93	11.5	169
155	The formation, annealing and self-compression of carbon onions under electron irradiation. <i>Chemical Physics Letters</i> , 1997 , 269, 349-355	2.5	158
154	Improving atomic displacement and replacement calculations with physically realistic damage models. <i>Nature Communications</i> , 2018 , 9, 1084	17.4	146
153	Creation of individual vacancies in carbon nanotubes by using an electron beam of 1 Å diameter. <i>Nano Letters</i> , 2009 , 9, 2285-9	11.5	133
152	Formation of face-centered-cubic titanium by mechanical attrition. <i>Journal of Applied Physics</i> , 2003 , 93, 1520-1524	2.5	130
151	Stability of carbon nanotubes under electron irradiation: Role of tube diameter and chirality. <i>Physical Review B</i> , 2005 , 72,	3.3	129
150	Ion-irradiation-induced welding of carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	128
149	Graphene growth by a metal-catalyzed solid-state transformation of amorphous carbon. <i>ACS Nano</i> , 2011 , 5, 1529-34	16.7	127
148	Radiation-Induced Transformation of Graphite to Diamond. <i>Physical Review Letters</i> , 1997 , 79, 3680-3683	7.4	122
147	Epitaxy of cubic boron nitride on (001)-oriented diamond. <i>Nature Materials</i> , 2003 , 2, 312-5	27	118
146	The transformation of graphitic onions to diamond under electron irradiation. <i>Journal of Applied Physics</i> , 1997 , 81, 3440-3445	2.5	112
145	Carbon nanotubes under electron irradiation: Stability of the tubes and their action as pipes for atom transport. <i>Physical Review B</i> , 2005 , 71,	3.3	110
144	The Engineering of Hot Carbon Nanotubes with a Focused Electron Beam. <i>Nano Letters</i> , 2004 , 4, 1143-1145	14.5	108
143	Dynamic behavior of nickel atoms in graphitic networks. <i>Physical Review Letters</i> , 2000 , 84, 686-9	7.4	103
142	Strain-induced metal-semiconductor transition observed in atomic carbon chains. <i>Nature Communications</i> , 2015 , 6, 6636	17.4	100
141	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4591-5	11.5	100
140	The migration of metal atoms through carbon onions. <i>Chemical Physics Letters</i> , 1998 , 292, 554-560	2.5	96

139	Reactive Ion Etching of Cylindrical Polyferrocenylsilane Block Copolymer Micelles: Fabrication of Ceramic Nanolines on Semiconducting Substrates. <i>Advanced Functional Materials</i> , 2003 , 13, 271-276	15.6	95
138	On the Systematics of Positron Lifetimes in Metals. <i>Physica Status Solidi A</i> , 1987 , 102, 171-179		92
137	Extreme superheating and supercooling of encapsulated metals in fullerenelike shells. <i>Physical Review Letters</i> , 2003 , 90, 185502	7.4	91
136	Thermal vacancies and positron-lifetime measurements in Fe _{76.3} Al _{23.7} . <i>Physical Review B</i> , 1990 , 41, 11869-11874	3.3	90
135	Formation of diamond in carbon onions under MeV ion irradiation. <i>Applied Physics Letters</i> , 1997 , 71, 1948-1950	8.7	87
134	Cutting single-walled carbon nanotubes with an electron beam: evidence for atom migration inside nanotubes. <i>Small</i> , 2005 , 1, 953-6	11	84
133	The formation of curled concentric-shell clusters in boron nitride under electron irradiation. <i>Chemical Physics Letters</i> , 1994 , 231, 98-104	2.5	83
132	Zipper mechanism of nanotube fusion: theory and experiment. <i>Physical Review Letters</i> , 2004 , 92, 075504	7.4	75
131	Electronic and Magnetic Properties of Ligand-Free FePt Nanoparticles. <i>Advanced Materials</i> , 2005 , 17, 574-578	24	61
130	Multibranching Junctions of Carbon Nanotubes via Cobalt Particles. <i>Advanced Materials</i> , 2009 , 21, 4477-4482	4.2	60
129	Formation of face-centered-cubic zirconium by mechanical attrition. <i>Applied Physics Letters</i> , 2002 , 81, 4136-4138	3.4	60
128	METAL ATOMS IN CARBON NANOTUBES AND RELATED NANOPARTICLES. <i>International Journal of Modern Physics B</i> , 2001 , 15, 4037-4069	1.1	60
127	In situ observation of the formation and stability of single fullerene molecules under electron irradiation. <i>Chemical Physics Letters</i> , 1996 , 254, 372-378	2.5	60
126	Plastic deformation of single nanometer-sized crystals. <i>Physical Review Letters</i> , 2008 , 101, 156101	7.4	59
125	Chains of carbon atoms: A vision or a new nanomaterial?. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 559-69	3	58
124	Enhanced Thermal Stability of Gold and Silver Nanorods by Thin Surface Layers. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12886-12889	3.8	55
123	Irradiation-induced transformation of graphite to diamond: A quantitative study. <i>Physical Review B</i> , 2000 , 62, 3058-3064	3.3	55
122	Semiconductor nanostructures defined with self-organizing polymers. <i>Journal of Applied Physics</i> , 2002 , 91, 6057-6059	2.5	54

121	Formation and decay of spherical concentric-shell carbon clusters. <i>Journal of Crystal Growth</i> , 1996 , 163, 445-454	1.6	53
120	Irradiation of carbon nanotubes with a focused electron beam in the electron microscope. <i>Journal of Materials Science</i> , 2006 , 41, 4505-4511	4.3	48
119	In Situ Heating TEM Study of Onion-like WS ₂ and MoS ₂ Nanostructures Obtained via MOCVD. <i>Chemistry of Materials</i> , 2008 , 20, 65-71	9.6	46
118	Two-dimensional materials under electron irradiation. <i>MRS Bulletin</i> , 2015 , 40, 29-37	3.2	45
117	Thermal Vacancies in the Noble Metals Cu, Ag, Au and in Pt Studied by Positron Lifetime Spectroscopy. <i>Materials Science Forum</i> , 1987 , 15-18, 117-124	0.4	45
116	EELS study of the irradiation-induced compression of carbon onions and their transformation to diamond. <i>Carbon</i> , 1998 , 36, 561-563	10.4	44
115	Microscopic bimetallic actuator based on a bilayer of graphene and graphene oxide. <i>Nanoscale</i> , 2013 , 5, 9123-8	7.7	43
114	Anomalous high capacitance in a coaxial single nanowire capacitor. <i>Nature Communications</i> , 2012 , 3, 87917.4	17.4	42
113	Low-pressure transformation of graphite to diamond under irradiation. <i>Applied Physics Letters</i> , 1999 , 74, 659-660	3.4	42
112	Characterization of ion-irradiation-induced defects in multi-walled carbon nanotubes. <i>New Journal of Physics</i> , 2011 , 13, 073004	2.9	41
111	Electron beam dynamics in an ultrafast transmission electron microscope with Wehnelt electrode. <i>Ultramicroscopy</i> , 2016 , 171, 8-18	3.1	40
110	Graphitization Mechanism during the Carbon-Nanotube Formation Based on the In-Situ HRTEM Observation. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1849-1852	3.4	40
109	Migration of gold atoms in graphene ribbons: Role of the edges. <i>Physical Review B</i> , 2010 , 81,	3.3	39
108	The diffusion of carbon atoms inside carbon nanotubes. <i>New Journal of Physics</i> , 2008 , 10, 023022	2.9	38
107	Laplacian growth of amorphous carbon filaments in a non-diffusion-limited experiment. <i>Physical Review E</i> , 1995 , 52, 5156-5160	2.4	35
106	Adhesion in growth of defect-free silicon over silicon oxide. <i>Journal of Applied Physics</i> , 1996 , 80, 4101-4107	10.7	32
105	A highly N-doped carbon phase "dressing" of macroscopic supports for catalytic applications. <i>Chemical Communications</i> , 2015 , 51, 14393-6	5.8	30
104	Functionalized single-walled carbon nanotubes containing traces of iron as new negative MRI contrast agents for in vivo imaging. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 153-9	3.2	30

103	Formation and transformation of carbon nanoparticles under electron irradiation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2205-22	3	30
102	Massive Icosahedral Boron Carbide Crystals. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5807-5809	3.4	30
101	In Situ TEM Observation of MgO Nanorod Growth. <i>Crystal Growth and Design</i> , 2010 , 10, 414-417	3.5	29
100	In situ growth of cellular two-dimensional silicon oxide on metal substrates. <i>ACS Nano</i> , 2013 , 7, 5175-80	16.7	28
99	Microstructure of the intermediate turbostratic boron nitride layer. <i>Diamond and Related Materials</i> , 2005 , 14, 1474-1481	3.5	28
98	The structure of concentric-shell carbon onions as determined by high-resolution electron microscopy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 72, 149-157		28
97	Cobalt nanoparticle-assisted engineering of multiwall carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2632-8	16.7	26
96	Growth of single-walled carbon nanotubes from sharp metal tips. <i>Small</i> , 2009 , 5, 2710-5	11	24
95	Structural transformations in carbon nanoparticles induced by electron irradiation. <i>Physics of the Solid State</i> , 2002 , 44, 399-404	0.8	24
94	Strains in crystals with amorphous surface films studied by convergent beam electron diffraction and high-resolution imaging. <i>Ultramicroscopy</i> , 1994 , 56, 233-240	3.1	24
93	The Deformation of Single, Nanometer-Sized Metal Crystals in Graphitic Shells. <i>Advanced Materials</i> , 2005 , 17, 1539-1542	24	23
92	The coalescence of silicon layers grown over SiO ₂ by liquid-phase epitaxy. <i>Applied Physics A: Solids and Surfaces</i> , 1993 , 57, 249-254		23
91	Fractal carbon filaments grown on insulators under irradiation in an electron microscope. <i>Philosophical Magazine Letters</i> , 1994 , 69, 45-51	1	22
90	Electrical transport through atomic carbon chains: The role of contacts. <i>Carbon</i> , 2017 , 122, 92-97	10.4	21
89	The Mobility of Carbon Atoms in Graphitic Nanoparticles Studied by the Relaxation of Strain in Carbon Onions. <i>Advanced Materials</i> , 2008 , 20, 4751-4754	24	21
88	Development of amorphous and nanocrystalline Al ₆₅ Cu _{35-x} Zr _x alloys by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 379, 360-365	5.3	21
87	Growth studies of Ge-islands for enhanced performance of thin film solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 89, 160-165	3.1	21
86	Quasi-2D Cu ₂ S crystals on graphene: in-situ growth and ab-initio calculations. <i>Small</i> , 2015 , 11, 1253-7	11	20

85	Creating the Smallest BN Nanotube from Bilayer h-BN. <i>Advanced Functional Materials</i> , 2017 , 27, 1603897	15.6	20
84	Graphitic onions as reaction cells on the nanoscale. <i>Applied Physics Letters</i> , 2006 , 88, 193121	3.4	20
83	Making junctions between carbon nanotubes using an ion beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 202, 224-229	1.2	20
82	Growth of cubic boron nitride films on Si by ion beam assisted deposition at the high temperatures. <i>Diamond and Related Materials</i> , 2004 , 13, 473-481	3.5	20
81	Dislocation generation in silicon grown laterally over SiO ₂ by liquid phase epitaxy. <i>Applied Physics A: Solids and Surfaces</i> , 1991 , 53, 317-323		19
80	Damage-free reactive ion etching of silicon in NF ₃ at low temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1989 , 4, 265-268	3.1	19
79	Electron beam-induced formation and displacement of metal clusters on graphene, carbon nanotubes and amorphous carbon. <i>Carbon</i> , 2012 , 50, 259-264	10.4	18
78	Defect-induced junctions between single- or double-wall carbon nanotubes and metal crystals. <i>Nanoscale</i> , 2010 , 2, 901-5	7.7	18
77	Elastic deformation of nanometer-sized metal crystals in graphitic shells. <i>Applied Physics Letters</i> , 2006 , 89, 263104	3.4	18
76	Growth mechanism for epitaxial cubic boron nitride films on diamond substrates by ion beam assisted deposition. <i>Diamond and Related Materials</i> , 2004 , 13, 1144-1148	3.5	18
75	The coalescence of silicon layers grown over SiO ₂ by liquid-phase epitaxy. <i>Applied Physics A: Solids and Surfaces</i> , 1993 , 57, 441-448		17
74	Heteroepitaxial growth of cubic boron nitride films on single-crystalline (001) diamond substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 735-738	2.6	16
73	Formation Mechanism of Carbon-Nanocapsules and -Nanoparticles Based on the In-Situ Observation. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1247-1251	3.4	16
72	Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates. <i>Thin Solid Films</i> , 2000 , 372, 1-5	2.2	16
71	Engineering the atomic structure of carbon nanotubes by a focused electron beam: new morphologies at the sub-nanometer scale. <i>ChemPhysChem</i> , 2012 , 13, 2596-600	3.2	15
70	Synthesis of SWCNT rings made by two Y junctions and possible applications in electron interferometry. <i>Small</i> , 2007 , 3, 1900-5	11	15
69	Low-temperature ohmic Au/Sb contacts to n-type Si. <i>Journal of Applied Physics</i> , 1994 , 75, 994-997	2.5	15
68	Microstructural evolution of wear-resistant FeCrB and FeCrNiCoB coating alloys during high-energy mechanical attrition. <i>Wear</i> , 2008 , 264, 940-946	3.5	14

67	Solid state synthesis of amorphous and/or nanocrystalline Al ₄₀ Zr ₄₀ Si ₂₀ alloy by mechanical alloying. <i>Materials Letters</i> , 2004 , 58, 403-407	3.3	14
66	Electron Beam Etching of CaO Crystals Observed Atom by Atom. <i>Nano Letters</i> , 2017 , 17, 5119-5125	11.5	13
65	. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 349-354	2.6	13
64	Imaging of molecules, lattice and lattice defects in C ₆₀ ⊂C ₇₀ fullerenes by high-resolution electron microscopy. <i>Philosophical Magazine Letters</i> , 1992 , 65, 283-289	1	13
63	Formation and characterization of carbon-metal nano-contacts. <i>Carbon</i> , 2014 , 77, 906-911	10.4	12
62	Ion beam assisted growth of c-BN films on top of c-BN substrates – HRTEM study. <i>Diamond and Related Materials</i> , 2002 , 11, 38-42	3.5	12
61	The role of lattice defects in the formation of new carbon structures under electron irradiation. <i>Journal of Electron Microscopy</i> , 2002 , 51, S189-S194		11
60	Solution growth of epitaxial semiconductor-on-insulator layers. <i>Journal of Crystal Growth</i> , 1996 , 166, 727-730	1.6	11
59	Convergent-beam electron diffraction studies of epitaxial Si/SiO ₂ systems. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 70, 341-357		11
58	The Study of Positron Diffusion in Solids by Positron Spin Relaxation (e+SR) Experiments. <i>Physica Status Solidi A</i> , 1987 , 102, 91-106		11
57	Nanosecond electron pulses in the analytical electron microscopy of a fast irreversible chemical reaction. <i>Nature Communications</i> , 2019 , 10, 3648	17.4	10
56	Ion irradiation of multi-walled boron nitride nanotubes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		10
55	Ion irradiation of carbon nanotubes encapsulating cobalt crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2618-2621	3	10
54	Anomalous behavior of gold nanoislands on top of SrTiO ₃ (001) during their overgrowth by thin YBaCuO films. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 390, 175-184	1.3	10
53	Structural, morphological, electrical and luminous properties of undoped micro/nanocrystalline silicon films deposited by ion-assisted beam deposition techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 112, 289-293	1.2	10
52	Towards nanoprinting with metals on graphene. <i>Nature Communications</i> , 2015 , 6, 8071	17.4	9
51	Imaging and electron energy-loss spectroscopy using single nanosecond electron pulses. <i>Ultramicroscopy</i> , 2018 , 188, 41-47	3.1	9
50	Microstructural aspects and positron annihilation study on solid state synthesis of amorphous and nanocrystalline Al ₆₀ ⊂Ti ₄₀ Si _x alloys prepared by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2485-2492	3.9	9

49	Thermal equilibrium vacancies in platinum studied by positron annihilation. <i>Physica Status Solidi A</i> , 1987 , 104, 263-272		9
48	Defect distribution and morphology development of SiGe layers grown on Si(100) substrates by LPE. <i>Thin Solid Films</i> , 1998 , 336, 116-119	2.2	8
47	Solid state synthesis of Al-based amorphous and nanocrystalline Al _{1-x} Ge _x and Al _{1-x} Si _x alloys. <i>International Journal of Materials Research</i> , 2003 , 94, 835-841		8
46	Growth studies of Ge-islands for enhanced performance of thin film solar cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 14, 249-254	3	8
45	Determination of the Mechanical Properties of Nanocrystalline Fe-Cr-Based Thermal Spray Coatings. <i>Materials Science Forum</i> , 2002 , 386-388, 571-576	0.4	8
44	Alliage nanocristallin Fe-1 %pds C obtenu par torsion sous haute pression de poudres préparées par broyage. <i>Annales De Chimie: Science Des Materiaux</i> , 2002 , 27, 45-53	2.1	8
43	Catalytic action of gold and copper crystals in the growth of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3609-15	1.3	7
42	The critical thickness of silicon-germanium layers grown by liquid phase epitaxy. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, 597-603	2.6	7
41	The formation of the smallest fullerene-like carbon cages on metal surfaces. <i>Nanoscale</i> , 2016 , 8, 2561-7	7.7	6
40	Solid-State Growth of One- and Two-Dimensional Silica Structures on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21001-21005	3.8	6
39	Interface reactions in [Fe/B] _n multilayers: a way to tune from crystalline/amorphous layer sequences to homogeneous amorphous Fe _x B _{100-x} films. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 5-13	2.6	6
38	Doping and connecting carbon nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 387, 51-62	0.5	6
37	Growth of multi-crystalline silicon on seeded glass from metallic solutions. <i>Materials Letters</i> , 1996 , 28, 87-91	3.3	6
36	Stress relaxation in SiGe layers grown on oxide-patterned Si substrates. <i>Journal of Applied Physics</i> , 1996 , 80, 6223-6228	2.5	6
35	In situ observation of atomic-scale stability limit of Cu nanoparticles. <i>Materials Today Nano</i> , 2018 , 4, 32-37	3.7	6
34	Carbon nanotubes as elements to focus electron beams by Fresnel diffraction. <i>Applied Physics Letters</i> , 2003 , 83, 5056-5058	3.4	5
33	Elemental carbon in the sp ¹ hybridization. <i>ChemTexts</i> , 2020 , 6, 1	2.2	5
32	The potentials and challenges of electron microscopy in the study of atomic chains. <i>EPJ Applied Physics</i> , 2017 , 78, 20701	1.1	4

31	Surface Morphology of LPE SiGe Layers Grown on (100) Si Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 485, 19		4
30	Local lattice distortions in spherical carbon nanoparticles as studied by HRTEM image analysis. <i>Ultramicroscopy</i> , 2002 , 92, 209-13	3.1	4
29	The amorphization of metal nanoparticles in graphitic shells under laser pulses. <i>Carbon</i> , 2020 , 161, 495-504	5.1.4	3
28	Wrapping bacteria in graphene. <i>ChemPhysChem</i> , 2011 , 12, 1637-9	3.2	3
27	Diamantbildung in Kohlenstoffzwiebeln Fullerencluster als nanoskopische Druckzellen. <i>Physik Journal</i> , 1997 , 53, 33-35		3
26	How to exploit ion-induced stress relaxation to grow thick c-BN films. <i>Pure and Applied Chemistry</i> , 2002 , 74, 489-492	2.1	3
25	Electron microscopy study of carbon onions synthesized by ion implantation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 1509-1520		3
24	Centrifugal techniques for solution growth of semiconductor layers. <i>Journal of Crystal Growth</i> , 1996 , 166, 234-238	1.6	3
23	Investigating the thermostability of succinate: quinone oxidoreductase enzymes by direct electrochemistry at SWNTs-modified electrodes and FTIR spectroscopy. <i>ChemPhysChem</i> , 2014 , 15, 3572-9	3.2	2
22	Electron beam-induced nanopatterning of multilayer graphene and amorphous carbon films with metal layers. <i>Applied Physics Letters</i> , 2011 , 98, 183105	3.4	2
21	SiGe layer structures for solar cell application grown by liquid phase epitaxy		2
20	Banhart, Hernández, and Terrones Reply. <i>Physical Review Letters</i> , 2004 , 92,	7.4	2
19	Determination of the Mechanical Properties of Nanocrystalline Fe-Cr-Based Thermal Spray Coatings. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2002 , 13, 571-576	0.2	2
18	Extremely Low Temperature Silicon Liquid Phase Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 386, 339		2
17	Semiconductor Epitaxial and Nonepitaxial Overgrowth from Solutions. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 399, 189		2
16	Photo-Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy. <i>Advanced Materials</i> , 2021 , e2105586	24	2
15	Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. <i>ACS Nano</i> , 2021 ,	16.7	2
14	Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. <i>Nanoscale</i> , 2016 , 8, 15079-85	7.7	1

- 13 Electron and Ion Irradiation **2012**, 123-143 1
- 12 Defects and coalescence in carbon nanotubes. *AIP Conference Proceedings*, **2001**, 0 1
- 11 Defect-Free Coalescence of Silicon Layers Over SiO₂. *Materials Research Society Symposia Proceedings*, **1993**, 317, 263 1
- 10 Electron microscopy study of carbon onions synthesized by ion implantation 1
- 9 Electrical properties of atomic carbon chains measured by in-situ TEM **2016**, 392-393
- 8 Semiconductor Nanostructures defined by self-organizing Polymers. *Materials Research Society Symposia Proceedings*, **2002**, 728, 3101
- 7 Dynamic Interfaces In Carbon Nanostructures. *Microscopy and Microanalysis*, **1999**, 5, 140-141 0.5
- 6 Temperature-dependence of the Frank-Read source in Si. *Computational Materials Science*, **1996**, 7, 181-186 0.5
- 5 In-situ electron irradiation studies of metal-carbon nanostructures **2008**, 121-122
- 4 Electron Irradiation Effects in Carbon Nanostructures: Surface Reconstruction, Extreme Compression, Nanotube Growth and Morphology Manipulation **2008**, 155-156
- 3 Silicon layers grown over SiO₂ by liquid phase epitaxy: Electron Microscopical study. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1990**, 48, 566-567
- 2 In-situ TEM study of the formation of the smallest possible fullerenes on metal surfaces **2016**, 494-495
- 1 Imaging and Electron Energy-Loss Spectroscopy with Single Nanosecond Electron Pulses. *Microscopy and Microanalysis*, **2018**, 24, 1960-1961 0.5