

Mario Hofmann

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	9,705 citations	27 h-index	88 g-index
88 ext. papers	10,761 ext. citations	8.4 avg, IF	5.93 L-index

#	Paper	IF	Citations
84	Perspectives on carbon nanotubes and graphene Raman spectroscopy. <i>Nano Letters</i> , 2010 , 10, 751-8	11.5	2389
83	Antibacterial activity of graphite, graphite oxide, graphene oxide, and reduced graphene oxide: membrane and oxidative stress. <i>ACS Nano</i> , 2011 , 5, 6971-80	16.7	1900
82	Synthesis of monolayer hexagonal boron nitride on Cu foil using chemical vapor deposition. <i>Nano Letters</i> , 2012 , 12, 161-6	11.5	902
81	Synthesis of few-layer hexagonal boron nitride thin film by chemical vapor deposition. <i>Nano Letters</i> , 2010 , 10, 4134-9	11.5	900
80	Raman spectroscopy of graphene and carbon nanotubes. <i>Advances in Physics</i> , 2011 , 60, 413-550	18.4	634
79	Controlled formation of sharp zigzag and armchair edges in graphitic nanoribbons. <i>Science</i> , 2009 , 323, 1701-5	33.3	592
78	Work function engineering of graphene electrode via chemical doping. <i>ACS Nano</i> , 2010 , 4, 2689-94	16.7	444
77	A novel class of strain gauges based on layered percolative films of 2D materials. <i>Nano Letters</i> , 2012 , 12, 5714-8	11.5	324
76	Complete corrosion inhibition through graphene defect passivation. <i>ACS Nano</i> , 2014 , 8, 443-8	16.7	185
75	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , 2009 , 469, 177-182	2.5	147
74	Raman spectroscopy as a probe of graphene and carbon nanotubes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 231-6	3	112
73	The big picture of Raman scattering in carbon nanotubes. <i>Vibrational Spectroscopy</i> , 2007 , 45, 71-81	2.1	94
72	Characterization and evaluation of nanoparticle release during the synthesis of single-walled and multiwalled carbon nanotubes by chemical vapor deposition. <i>Environmental Science & Technology</i> , 2009 , 43, 6017-23	10.3	85
71	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. <i>Nano Letters</i> , 2009 , 9, 1839-43	11.5	79
70	Enhancing the Sensitivity of Percolative Graphene Films for Flexible and Transparent Pressure Sensor Arrays. <i>Advanced Functional Materials</i> , 2016 , 26, 5061-5067	15.6	72
69	Defects in individual semiconducting single wall carbon nanotubes: Raman spectroscopic and in situ Raman spectroelectrochemical study. <i>Nano Letters</i> , 2010 , 10, 4619-26	11.5	63
68	Growth Mechanism of Long and Horizontally Aligned Carbon Nanotubes by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7292-7297	3.8	62

67	Scanning electrochemical microscopy of individual single-walled carbon nanotubes. <i>Analytical Chemistry</i> , 2010 , 82, 1605-7	7.8	53
66	In-situ sample rotation as a tool to understand chemical vapor deposition growth of long aligned carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 4122-7	11.5	49
65	Softening of the radial breathing mode in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 126804	7.4	44
64	Controlling the properties of graphene produced by electrochemical exfoliation. <i>Nanotechnology</i> , 2015 , 26, 335607	3.4	34
63	Promoter-assisted chemical vapor deposition of graphene. <i>Carbon</i> , 2014 , 67, 417-423	10.4	33
62	Surface-induced hybridization between graphene and titanium. <i>ACS Nano</i> , 2014 , 8, 7704-13	16.7	33
61	High-Throughput Graphene Synthesis in Gapless Stacks. <i>Chemistry of Materials</i> , 2016 , 28, 40-43	9.6	30
60	A graphene-based surface plasmon sensor. <i>Nano Research</i> , 2012 , 5, 695-702	10	29
59	Surface plasmon enhanced energy transfer between type I CdSe/ZnS and type II CdSe/ZnTe quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 071906	3.4	29
58	Scalable, flexible and high resolution patterning of CVD graphene. <i>Nanoscale</i> , 2014 , 6, 289-92	7.7	28
57	A facile tool for the characterization of two-dimensional materials grown by chemical vapor deposition. <i>Nano Research</i> , 2012 , 5, 504-511	10	24
56	Loop Formation in graphitic nanoribbon edges using furnace heating or Joule heating. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1996		24
55	Layer Control of Tubular Graphene for Corrosion Inhibition of Nickel Wires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22911-22917	9.5	21
54	Dopant morphology as the factor limiting graphene conductivity. <i>Scientific Reports</i> , 2015 , 5, 17393	4.9	16
53	Impact of growth rate on graphene lattice-defect formation within a single crystalline domain. <i>Scientific Reports</i> , 2018 , 8, 4046	4.9	15
52	Hybrid Optical/Electric Memristor for Light-Based Logic and Communication. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4649-4653	9.5	15
51	Electromagnetic Interference Shielding by Transparent Graphene/Nickel Mesh Films. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7474-7481	5.6	14
50	Modelling electrical conduction in nanostructure assemblies through complex networks. <i>Nature Materials</i> , 2020 , 19, 745-751	27	14

49	Ultra-high sensitivity graphene photosensors. <i>Applied Physics Letters</i> , 2014 , 104, 041110	3.4	13
48	Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 339-43	3.6	12
47	Reducing the graphene grain density in three steps. <i>Nanotechnology</i> , 2016 , 27, 105602	3.4	12
46	Recrystallization of copper at a solid interface for improved CVD graphene growth. <i>RSC Advances</i> , 2017 , 7, 3736-3740	3.7	11
45	A Bi-Anti-Ambipolar Field Effect Transistor. <i>ACS Nano</i> , 2021 , 15, 8686-8693	16.7	11
44	Lateral Two-Dimensional Material Heterojunction Photodetectors with Ultrahigh Speed and Detectivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6384-6388	9.5	10
43	Characterizing percolative materials by straining. <i>Nanoscale</i> , 2019 , 11, 1074-1079	7.7	8
42	Chiral angle dependence of resonance window widths in (2n+m) families of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 103118	3.4	8
41	Direct deposition of single-walled carbon nanotube thin films via electrostatic spray assisted chemical vapor deposition. <i>Nanotechnology</i> , 2009 , 20, 065601	3.4	8
40	Electrostatic Control over the Electrochemical Reactivity of Graphene. <i>Chemistry of Materials</i> , 2018 , 30, 7178-7182	9.6	8
39	Enhancing CVD graphene's inter-grain connectivity by a graphite promoter. <i>Nanoscale</i> , 2015 , 7, 19403-7	7.7	7
38	2D Material-Enabled Nanomechanical Bolometer. <i>Nano Letters</i> , 2020 , 20, 2326-2331	11.5	7
37	Characterization of graphene edge functionalization by grating enhanced Raman spectroscopy. <i>RSC Advances</i> , 2016 , 6, 12398-12401	3.7	7
36	Ultrahigh mobility in polyolefin-supported graphene. <i>Nanoscale</i> , 2016 , 8, 1327-31	7.7	7
35	Increasing the doping efficiency by surface energy control for ultra-transparent graphene conductors. <i>Scientific Reports</i> , 2017 , 7, 9052	4.9	7
34	Heavy Mediator at Quantum Dot/Graphene Heterojunction for Efficient Charge Carrier Transfer: Alternative Approach for High-Performance Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26518-26527	9.5	6
33	Other one-dimensional systems and thermal properties. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1613		6
32	Ad-layers enhance graphene's performance. <i>RSC Advances</i> , 2015 , 5, 93684-93688	3.7	5

31	Size effects on phonon localization and Raman enhancement in silicon nanotips. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 81-85	2.3	5
30	How does graphene grow on complex 3D morphologies?. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23357-23361	3.6	5
29	Ultrathin graphene-based solar cells. <i>RSC Advances</i> , 2015 , 5, 99627-99631	3.7	4
28	Solid-diffusion-facilitated cleaning of copper foil improves the quality of CVD graphene. <i>Scientific Reports</i> , 2019 , 9, 257	4.9	3
27	Neutral scatterers dominate carrier transport in CVD graphene with ionic impurities. <i>Carbon</i> , 2020 , 165, 163-168	10.4	3
26	Tunneling-injection in vertical quasi-2D heterojunctions enabled efficient and adjustable optoelectronic conversion. <i>Scientific Reports</i> , 2016 , 6, 31475	4.9	3
25	Assessment of exhaust emissions from carbon nanotube production and particle collection by sampling filters. <i>Journal of the Air and Waste Management Association</i> , 2015 , 65, 1376-85	2.4	3
24	Ferroelectric 2D ice under graphene confinement. <i>Nature Communications</i> , 2021 , 12, 6291	17.4	3
23	QD/2D Hybrid Nanoscrolls: A New Class of Materials for High-Performance Polarized Photodetection and Ultralow Threshold Laser Action. <i>Small</i> , 2020 , 16, e2003944	11	3
22	Enhancing Thermoelectric Properties of 2D Bi ₂ Se ₃ by 1D Texturing with Graphene. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8411-8415	6.1	3
21	Optical Characterization of Graphene and Its Derivatives: An Experimentalist's Perspective 2017 , 27-59		2
20	An Arbitrary Color Light Emitter. <i>Advanced Materials</i> , 2017 , 29, 1604076	24	2
19	MOS photodetectors based on Au-nanorod doped graphene electrodes. <i>Nanotechnology</i> , 2011 , 22, 305201	3.4	2
18	2D Material Enabled Offset-Patterning with Atomic Resolution. <i>Advanced Functional Materials</i> , 2020 , 30, 2004370	15.6	2
17	Characterizing carrier transport in nanostructured materials by force-resolved microprobing. <i>Scientific Reports</i> , 2020 , 10, 14177	4.9	2
16	Edge-Rich Interconnected Graphene Mesh Electrode with High Electrochemical Reactivity Applicable for Glucose Detection. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
15	Patterned liquid metal contacts for high density, stick-and-peel 2D material device arrays. <i>Nanoscale</i> , 2018 , 10, 14510-14515	7.7	2
14	Two-Dimensional Mechano-thermoelectric Heterojunctions for Self-Powered Strain Sensors. <i>Nano Letters</i> , 2021 , 21, 6990-6997	11.5	2

13	Multilevel Optical Labeling by Spectral Luminescence Control in Nanodiamond Color Centers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49006-49011	9.5	1
12	Robust formation of amorphous SbS on functionalized graphene for high-performance optoelectronic devices in the cyan-gap. <i>Scientific Reports</i> , 2020 , 10, 14873	4.9	1
11	Ultra-thin 2D transition metal monochalcogenide crystals by planarized reactions. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	1
10	Edge-Trimmed Nanogaps in 2D Materials for Robust, Scalable, and Tunable Lateral Tunnel Junctions. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
9	Direct Synthesis and Integration of SWNT Devices. <i>Integrated Circuits and Systems</i> , 2009 , 43-61	0.2	1
8	Chemical vapor deposition merges MoS grains into high-quality and centimeter-scale films on Si/SiO ₂ . <i>RSC Advances</i> , 2022 , 12, 5990-5996	3.7	1
7	Direct growth of single-metal-atom chains 2022 , 1, 245-253		1
6	Correlation of grain orientations and the thickness of gradient MoS films.. <i>RSC Advances</i> , 2021 , 11, 34269-34274	3.7	1
5	Reaction-limited graphene CVD surpasses silicon production rate. <i>2D Materials</i> , 2021 , 8, 035016	5.9	0
4	Development of a Tri-Functional Nanoprobe for Background-Free SERS Detection of Sialic Acid on the Cell Surface. <i>Chemosensors</i> , 2021 , 9, 92	4	0
3	Ink-jet patterning of graphene by cap assisted barrier-guided CVD.. <i>RSC Advances</i> , 2019 , 9, 29105-29108	3.7	0
2	Graphene Synthesis and Quality Optimization 2019 , 41-62		
1	Efficient light-confinement in heterostructured transition metal dichalcogenide-based nanoscrolls for high-performance photonic devices. <i>Journal of Materials Research</i> , 2022 , 37, 660-669	2.5	