

# Christoph Stampfer

## List of Publications by Citations

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204  
papers

10,636  
citations

49  
h-index

100  
g-index

222  
ext. papers

11,997  
ext. citations

6  
avg, IF

6.03  
L-index

#	Paper	IF	Citations
204	Spatially resolved Raman spectroscopy of single- and few-layer graphene. <i>Nano Letters</i> , <b>2007</b> , 7, 238-42	11.5	2115
203	Ultrahigh-mobility graphene devices from chemical vapor deposition on reusable copper. <i>Science Advances</i> , <b>2015</b> , 1, e1500222	14.3	491
202	Energy gaps in etched graphene nanoribbons. <i>Physical Review Letters</i> , <b>2009</b> , 102, 056403	7.4	343
201	Tunable graphene single electron transistor. <i>Nano Letters</i> , <b>2008</b> , 8, 2378-83	11.5	312
200	Fabrication of single-walled carbon-nanotube-based pressure sensors. <i>Nano Letters</i> , <b>2006</b> , 6, 233-7	11.5	282
199	Raman spectroscopy as probe of nanometre-scale strain variations in graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 8429	17.4	253
198	Nano-electromechanical displacement sensing based on single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2006</b> , 6, 1449-53	11.5	242
197	Franck-Condon blockade in suspended carbon nanotube quantum dots. <i>Nature Physics</i> , <b>2009</b> , 5, 327-331	16.2	234
196	Tunable Coulomb blockade in nanostructured graphene. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 012102	3.4	222
195	Nano electromechanical sensors based on carbon nanotubes. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 136, 51-61	3.9	208
194	Graphene spintronics: the European Flagship perspective. <i>2D Materials</i> , <b>2015</b> , 2, 030202	5.9	198
193	Ballistic Transport Exceeding 28 $\hbar$ in CVD Grown Graphene. <i>Nano Letters</i> , <b>2016</b> , 16, 1387-91	11.5	191
192	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
191	Raman imaging of doping domains in graphene on SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2007</b> , 91, 241907	3.4	175
190	Selective chemical modification of graphene surfaces: distinction between single- and bilayer graphene. <i>Small</i> , <b>2010</b> , 6, 1125-30	11	167
189	Spin Lifetimes Exceeding 12 ns in Graphene Nonlocal Spin Valve Devices. <i>Nano Letters</i> , <b>2016</b> , 16, 3533-9	11.5	165
188	Variations in the work function of doped single- and few-layer graphene assessed by Kelvin probe force microscopy and density functional theory. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	152

187	The mechanical properties of atomic layer deposited alumina for use in micro- and nano-electromechanical systems. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 130-131, 419-429	3.9	151
186	Observation of excited states in a graphene quantum dot. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 012107	3.4	141
185	Transport gap in side-gated graphene constrictions. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	133
184	Graphene quantum dots: Beyond a Dirac billiard. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	133
183	Nanosecond spin lifetimes in single- and few-layer graphene-hBN heterostructures at room temperature. <i>Nano Letters</i> , <b>2014</b> , 14, 6050-5	11.5	127
182	Transport through graphene quantum dots. <i>Reports on Progress in Physics</i> , <b>2012</b> , 75, 126502	14.4	114
181	Ultra-sensitive Hall sensors based on graphene encapsulated in hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 193501	3.4	113
180	Raman imaging of graphene. <i>Solid State Communications</i> , <b>2007</b> , 143, 44-46	1.6	109
179	Spin states in graphene quantum dots. <i>Physical Review Letters</i> , <b>2010</b> , 105, 116801	7.4	108
178	Quantum capacitance and density of states of graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 152104	3.4	107
177	Electron-hole crossover in graphene quantum dots. <i>Physical Review Letters</i> , <b>2009</b> , 103, 046810	7.4	105
176	Graphene single-electron transistors. <i>Materials Today</i> , <b>2010</b> , 13, 44-50	21.8	99
175	Charge detection in graphene quantum dots. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 212102	3.4	99
174	Out-of-plane heat transfer in van der Waals stacks through electron-hyperbolic phonon coupling. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 41-46	28.7	87
173	SWNT growth by CVD on Ferritin-based iron catalyst nanoparticles towards CNT sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 485-490	8.5	82
172	Advanced tools for smartphone-based experiments: phyphox. <i>Physics Education</i> , <b>2018</b> , 53, 045009	0.8	80
171	Electronic properties of graphene nanostructures. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 243201.8	1.8	78
170	Random Strain Fluctuations as Dominant Disorder Source for High-Quality On-Substrate Graphene Devices. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	77

169	Transport through graphene double dots. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 222107	3.4	76
168	Imaging localized states in graphene nanostructures. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	71
167	Probing relaxation times in graphene quantum dots. <i>Nature Communications</i> , <b>2013</b> , 4, 1753	17.4	64
166	The AharonovBohm effect in a side-gated graphene ring. <i>New Journal of Physics</i> , <b>2010</b> , 12, 043054	2.9	64
165	Identifying suitable substrates for high-quality graphene-based heterostructures. <i>2D Materials</i> , <b>2017</b> , 4, 025030	5.9	60
164	Raman spectroscopy on etched graphene nanoribbons. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 073710	2.5	59
163	Sensing NO <sub>2</sub> with individual suspended single-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 491-497	8.5	58
162	Local gating of a graphene Hall bar by graphene side gates. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	58
161	Size quantization of Dirac fermions in graphene constrictions. <i>Nature Communications</i> , <b>2016</b> , 7, 11528	17.4	56
160	Transport in graphene nanostructures. <i>Frontiers of Physics</i> , <b>2011</b> , 6, 271-293	3.7	55
159	Observation of excited states in a graphene double quantum dot. <i>Europhysics Letters</i> , <b>2010</b> , 89, 67005	1.6	52
158	Energy and transport gaps in etched graphene nanoribbons. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 034002	1.8	51
157	A two-dimensional Dirac fermion microscope. <i>Nature Communications</i> , <b>2017</b> , 8, 15783	17.4	50
156	Dielectric screening of the Kohn anomaly of graphene on hexagonal boron nitride. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	50
155	High Quality Factor Graphene-Based Two-Dimensional Heterostructure Mechanical Resonator. <i>Nano Letters</i> , <b>2017</b> , 17, 5950-5955	11.5	49
154	Investigation of the AharonovBohm effect in a gated graphene ring. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2756-2759	1.3	48
153	Limitations to carrier mobility and phase-coherent transport in bilayer graphene. <i>Physical Review Letters</i> , <b>2014</b> , 113, 126801	7.4	43
152	Time-resolved charge detection in graphene quantum dots. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	42

151	Tailoring Mechanically Tunable Strain Fields in Graphene. <i>Nano Letters</i> , <b>2018</b> , 18, 1707-1713	11.5	41
150	Fabrication of discrete nanoscaled force sensors based on single-walled carbon nanotubes. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 613-617	4	41
149	Etched graphene quantum dots on hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 073113	3.4	37
148	Asymmetric Franck-Condon factors in suspended carbon nanotube quantum dots. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	37
147	Transition to Landau levels in graphene quantum dots. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	36
146	Disorder induced Coulomb gaps in graphene constrictions with different aspect ratios. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 032109	3.4	35
145	Intervalley dark trion states with spin lifetimes of 150 ns in WSe <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	33
144	Graphene quantum dots in perpendicular magnetic fields. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2553-2557	1.3	32
143	Suppression of contact-induced spin dephasing in graphene/MgO/Co spin-valve devices by successive oxygen treatments. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	31
142	Electronic excited states in bilayer graphene double quantum dots. <i>Nano Letters</i> , <b>2011</b> , 11, 3581-6	11.5	31
141	Readout of carbon nanotube vibrations based on spin-phonon coupling. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 143103	3.4	31
140	Gate-Defined Electron-Hole Double Dots in Bilayer Graphene. <i>Nano Letters</i> , <b>2018</b> , 18, 4785-4790	11.5	31
139	Growth, characterization, and transport properties of ternary (Bi Sb )Te topological insulator layers. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 495501	1.8	30
138	Uniformity of the pseudomagnetic field in strained graphene. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	30
137	High mobility dry-transferred CVD bilayer graphene. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 263110	3.4	29
136	Synthesis of individual single-walled carbon nanotube bridges controlled by support micromachining. <i>Journal of Micromechanics and Microengineering</i> , <b>2007</b> , 17, 603-608	2	27
135	Process integration of carbon nanotubes into microelectromechanical systems. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 130-131, 588-594	3.9	27
134	Electrothermal effects at the microscale and their consequences on system design. <i>Journal of Micromechanics and Microengineering</i> , <b>2006</b> , 16, 1633-1638	2	26

133	Single-Electron Double Quantum Dots in Bilayer Graphene. <i>Nano Letters</i> , <b>2020</b> , 20, 2005-2011	11.5	25
132	Contact-induced charge contributions to non-local spin transport measurements in Co/MgO/graphene devices. <i>2D Materials</i> , <b>2015</b> , 2, 024001	5.9	25
131	Charge detection in a bilayer graphene quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2684-2687	1.3	25
130	Graphene Field-Effect Transistors With High Extrinsic $f_T$ and $f_{\text{max}}$ . <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 131-134	4.4	25
129	Low B field magneto-phonon resonances in single-layer and bilayer graphene. <i>Nano Letters</i> , <b>2015</b> , 15, 1547-52	11.5	24
128	Direct wiring of carbon nanotubes for integration in nanoelectromechanical systems. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 3144		24
127	Quantum capacitance and density of states of graphene. <i>Physica Scripta</i> , <b>2012</b> , T146, 014009	2.6	23
126	Raman intensity mapping of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	23
125	Metavalent Bonding in Crystalline Solids: How Does It Collapse?. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102356	2.4	23
124	Detecting Ultrasound Vibrations with Graphene Resonators. <i>Nano Letters</i> , <b>2018</b> , 18, 5132-5137	11.5	22
123	Local transport measurements on epitaxial graphene. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 111604	3.4	22
122	Raman mapping of a single-layer to double-layer graphene transition. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 148, 171-176	2.3	22
121	Large-area MoS <sub>2</sub> deposition via MOVPE. <i>Journal of Crystal Growth</i> , <b>2017</b> , 464, 100-104	1.6	21
120	Spin States Protected from Intrinsic Electron-Phonon Coupling Reaching 100 ns Lifetime at Room Temperature in MoSe. <i>Nano Letters</i> , <b>2019</b> , 19, 4083-4090	11.5	20
119	Observation of the Spin-Orbit Gap in Bilayer Graphene by One-Dimensional Ballistic Transport. <i>Physical Review Letters</i> , <b>2020</b> , 124, 177701	7.4	20
118	Coulomb oscillations in three-layer graphene nanostructures. <i>New Journal of Physics</i> , <b>2008</b> , 10, 125029	2.9	20
117	Piezoresponse force microscopy on doubly clamped KNbO <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 223101	3.4	20
116	Thermography on a suspended microbridge using confocal Raman scattering. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 191901	3.4	20

115	Semiclassical theory for transmission through open billiards: convergence towards quantum transport. <i>Physical Review E</i> , <b>2003</b> , 67, 016206	2.4	19
114	Electron-Hole Crossover in Gate-Controlled Bilayer Graphene Quantum Dots. <i>Nano Letters</i> , <b>2020</b> , 20, 7709-7715	11.5	17
113	Graphene-based charge sensors. <i>Nanotechnology</i> , <b>2013</b> , 24, 444001	3.4	16
112	The relevance of electrostatics for scanning-gate microscopy. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053013	2.9	16
111	Spatial Control of Laser-Induced Doping Profiles in Graphene on Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9377-83	9.5	16
110	2D materials for future heterogeneous electronics.. <i>Nature Communications</i> , <b>2022</b> , 13, 1392	17.4	16
109	. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 4053-4060	2.9	15
108	Amorphous carbon contamination monitoring and process optimization for single-walled carbon nanotube integration. <i>Nanotechnology</i> , <b>2007</b> , 18, 075603	3.4	15
107	Unveiling Valley Lifetimes of Free Charge Carriers in Monolayer WSe. <i>Nano Letters</i> , <b>2020</b> , 20, 3147-3154	11.5	14
106	Reducing disorder in graphene nanoribbons by chemical edge modification. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 083105	3.4	14
105	Laser induced non-thermal deposition of ultrathin graphite. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 151606	3.4	14
104	Transport through a strongly coupled graphene quantum dot in perpendicular magnetic field. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 253	5	14
103	Quantum transport through MoS constrictions defined by photodoping. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 205001	1.8	13
102	Imaging Dirac fermions flow through a circular Veselago lens. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	13
101	Fabrication of coupled graphene-nanotube quantum devices. <i>Nanotechnology</i> , <b>2013</b> , 24, 035204	3.4	13
100	Negative quantum capacitance in graphene nanoribbons with lateral gates. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	13
99	Pseudopath semiclassical approximation to transport through open quantum billiards: Dyson equation for diffractive scattering. <i>Physical Review E</i> , <b>2005</b> , 72, 036223	2.4	13
98	Encapsulated graphene-based Hall sensors on foil with increased sensitivity. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2316-2320	1.3	13

97	Tunable mechanical coupling between driven microelectromechanical resonators. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 143507	3.4	13
96	Dry-transferred CVD graphene for inverted spin valve devices. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 152402	3.4	12
95	Switchable Coupling of Vibrations to Two-Electron Carbon-Nanotube Quantum Dot States. <i>Nano Letters</i> , <b>2015</b> , 15, 4417-22	11.5	12
94	Impact of Many-Body Effects on Landau Levels in Graphene. <i>Physical Review Letters</i> , <b>2018</b> , 120, 187701	7.4	12
93	Impact of thermal annealing on graphene devices encapsulated in hexagonal boron nitride. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2545-2550	1.3	12
92	From Diffusive to Ballistic Transport in Etched Graphene Constrictions and Nanoribbons. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1700082	2.6	12
91	Enhanced C3+ alcohol synthesis from syngas using KCoMoSx catalysts: effect of the Co-Mo ratio on catalyst performance. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118950	21.8	12
90	Phase-coherent transport in catalyst-free vapor phase deposited Bi2Se3 crystals. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	11
89	Transport through open quantum dots: Making semiclassics quantitative. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	11
88	Diffraction paths for weak localization in quantum billiards. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11
87	Excellent electronic transport in heterostructures of graphene and monoisotopic boron-nitride grown at atmospheric pressure. <i>2D Materials</i> , <b>2020</b> , 7, 031009	5.9	11
86	Ultra-long wavelength Dirac plasmons in graphene capacitors. <i>JPhys Materials</i> , <b>2018</b> , 1, 01LT02	4.2	11
85	Buried triple-gate structures for advanced field-effect transistor devices. <i>Microelectronic Engineering</i> , <b>2014</b> , 119, 95-99	2.5	10
84	Fabrication of discrete carbon nanotube based nano-scaled force sensors		10
83	The Dependence of the High-Frequency Performance of Graphene Field-Effect Transistors on Channel Transport Properties. <i>IEEE Journal of the Electron Devices Society</i> , <b>2020</b> , 8, 457-464	2.3	10
82	Simple Time-of-Flight Measurement of the Speed of Sound Using Smartphones. <i>Physics Teacher</i> , <b>2019</b> , 57, 112-113	0.4	9
81	Spin and charge transport in graphene-based spin transport devices with Co/MgO spin injection and spin detection electrodes. <i>Synthetic Metals</i> , <b>2015</b> , 210, 42-55	3.6	9
80	Mesoporous manganese phthalocyanine-based materials for electrochemical water oxidation via tailored templating. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1517-1521	5.5	9



79	Line shape of the Raman 2D peak of graphene in van der Waals heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2326-2330	1.3	9
78	CNT Based Sensors. <i>Advances in Science and Technology</i> , <b>2008</b> , 54, 343-349	0.1	9
77	Raman imaging for processing and process monitoring for nanotube devices. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4341-4345	1.3	9
76	Interplay between nanometer-scale strain variations and externally applied strain in graphene. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	8
75	Tunable capacitive inter-dot coupling in a bilayer graphene double quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 169-174		8
74	Etched graphene single electron transistors on hexagonal boron nitride in high magnetic fields. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2692-2696	1.3	8
73	Flying and Crawling Modes during Surface-Bound Single Wall Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17249-17253	3.8	8
72	Piezoresistance of Single-Walled Carbon Nanotubes <b>2007</b> ,		8
71	Micromachined pressure sensors for electromechanical characterization of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3537-3541	1.3	8
70	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
69	Proximity-induced spin-orbit coupling in graphene/Bi <sub>1.5</sub> Sb <sub>0.5</sub> Te <sub>1.7</sub> Se <sub>1.3</sub> heterostructures. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
68	Fabrication of comb-drive actuators for straining nanostructured suspended graphene. <i>Nanotechnology</i> , <b>2018</b> , 29, 375301	3.4	8
67	Aharonov-Bohm oscillations and magnetic focusing in ballistic graphene rings. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	7
66	A corner reflector of graphene Dirac fermions as a phonon-scattering sensor. <i>Nature Communications</i> , <b>2019</b> , 10, 2428	17.4	6
65	Low-frequency noise in individual carbon nanotube field-effect transistors with top, side and back gate configurations: effect of gamma irradiation. <i>Nanotechnology</i> , <b>2014</b> , 25, 035703	3.4	6
64	Back action of graphene charge detectors on graphene and carbon nanotube quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2461-2465	1.3	6
63	TRANSPARENCY OF NARROW CONSTRICTIONS IN A GRAPHENE SINGLE ELECTRON TRANSISTOR. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 2647-2654	1.1	6
62	CNT based nano electro mechanical systems (NEMS) <b>2005</b> ,		6

61	Fractional quantum Hall effect in CVD-grown graphene. <i>2D Materials</i> , <b>2020</b> , 7, 041007	5.9	6
60	Spin-valley coupling in single-electron bilayer graphene quantum dots. <i>Nature Communications</i> , <b>2021</b> , 12, 5250	17.4	6
59	Tunable s-SNOM for Nanoscale Infrared Optical Measurement of Electronic Properties of Bilayer Graphene. <i>ACS Photonics</i> , <b>2021</b> , 8, 418-423	6.3	6
58	Dry transfer of CVD graphene using MoS <sub>2</sub> -based stamps. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1700136	2.5	5
57	Electrostatic Detection of Shubnikov-De Haas Oscillations in Bilayer Graphene by Coulomb Resonances in Gate-Defined Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000333 <sup>1-3</sup>		5
56	Simulations on the Influence of Spatially Varying Spin Transport Parameters on the Measured Spin Lifetime in Graphene Non-Local Spin Valves. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700293 <sup>1-3</sup>		5
55	Electron shuttle instability for nano electromechanical mass sensing. <i>Nano Letters</i> , <b>2007</b> , 7, 2747-52	11.5	5
54	CO <sub>2</sub> Hydrogenation to Higher Alcohols over K-Promoted Bimetallic Fe <sub>2</sub> C Catalysts on a CeO <sub>2</sub> Support. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6235-6249	8.3	5
53	Pulsed-gate spectroscopy of single-electron spin states in bilayer graphene quantum dots. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
52	Raman Spectroscopy of Lithographically Defined Graphene Nanoribbons - Influence of Size and Defects. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1700167	2.6	4
51	Probing electronic lifetimes and phonon anharmonicities in high-quality chemical vapor deposited graphene by magneto-Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 233105	3.4	4
50	Comment on Dynamic range of nanotube- and nanowire-based electromechanical systems [Appl. Phys. Lett. 86, 223105 (2005)]. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 036101	3.4	4
49	A MEMS actuator for integrated carbon nanotube strain sensing		4
48	A method for enhanced analysis of specific as-grown carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3138-3141	1.3	4
47	Raman Imaging and Electronic Properties of Graphene <b>2008</b> , 171-176		4
46	Use of the Indirect Photoluminescence Peak as an Optical Probe of Interface Defectivity in MoS <sub>2</sub> . <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000413	4.6	4
45	How to solve problems in micro- and nanofabrication caused by the emission of electrons and charged metal atoms during e-beam evaporation. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 225304	3	4
44	Graphene Field-Effect Transistors for Millimeter Wave Amplifiers <b>2019</b> ,		4

43	Tunable interdot coupling in few-electron bilayer graphene double quantum dots. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 103101	3.4	4
42	Optimizing Dirac fermions quasi-confinement by potential smoothness engineering. <i>2D Materials</i> , <b>2020</b> , 7, 025037	5.9	3
41	Effects of Self-Heating on $f_{T}$ and $f_{max}$ Performance of Graphene Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 1277-1284	2.9	3
40	Nanosecond spin lifetimes in bottom-up fabricated bilayer graphene spin-valves with atomic layer deposited AlO spin injection and detection barriers. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2395-2400	1.3	3
39	Phase-coherent transport in a mesoscopic few-layer graphite wire. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1851-1854	3	3
38	Nano electromechanical transducer based on single walled carbon nanotubes		3
37	Probing Two-Electron Multiplets in Bilayer Graphene Quantum Dots.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 256802	7.4	3
36	Radially polarized light beams from spin-forbidden dark excitons and trions in monolayer WSe <sub>2</sub> . <i>Optical Materials Express</i> , <b>2020</b> , 10, 1273	2.6	3
35	Does carrier velocity saturation help to enhance $f_{max}$ in graphene field-effect transistors?. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4179-4186	5.1	3
34	Upstream modes and antidots poison graphene quantum Hall effect. <i>Nature Communications</i> , <b>2021</b> , 12, 4265	17.4	3
33	Integrated impedance bridge for absolute capacitance measurements at cryogenic temperatures and finite magnetic fields. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 084706	1.7	2
32	Low-temperature compatible electrostatic comb-drive actuators with integrated graphene <b>2014</b> ,		2
31	Dynamics of ultrashort pulsed laser radiation induced non-thermal ablation of graphite. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 1873-1878	2.6	2
30	Encapsulating graphene by ultra-thin alumina for reducing process contaminations. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 2526-2529	1.3	2
29	Electronic transport in graphene nanostructures on SiO <sub>2</sub> . <i>Solid State Communications</i> , <b>2012</b> , 152, 1306-1310	1.0	2
28	Nanoscale Straining of Individual Carbon Nanotubes by Micromachined Transducers <b>2007</b> ,		2
27	NO <sub>2</sub> Gas Sensors Based on Individual Suspended Single-Walled Carbon Nanotubes <b>2007</b> ,		2
26	Low stress atomic layer deposited alumina for nano electro mechanical systems		2

25	How Photoinduced Gate Screening and Leakage Currents Dynamically Change the Fermi Level in 2D Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000298	2.5	2
24	Dispersive sensing of charge states in a bilayer graphene quantum dot. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 093104	3.4	2
23	Tunable coupling of two mechanical resonators by a graphene membrane. <i>2D Materials</i> , <b>2021</b> , 8, 0350395.9	5.9	2
22	Correspondence: On the nature of strong piezoelectricity in graphene on SiO <sub>2</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 11570	17.4	2
21	Reducing the Impact of Bulk Doping on Transport Properties of Bi-Based 3D Topological Insulators. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2000021	1.3	2
20	Characterization of Graphene by Confocal Raman Spectroscopy. <i>Springer Series in Surface Sciences</i> , <b>2018</b> , 177-194	0.4	1
19	Modeling charge relaxation in graphene quantum dots induced by electron-phonon interaction. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	1
18	Insulating State in Low-Disorder Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900269	1.3	1
17	Raman spectroscopy on mechanically exfoliated pristine graphene ribbons. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2551-2555	1.3	1
16	Temperature-dependent properties of an individual memsintegrated single-walled carbon nanotube. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , <b>2008</b> ,		1
15	Progress in carbon nanotube based nanoelectromechanical systems synthesis. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4323-4326	1.3	1
14	Single Walled Carbon Nanotubes as Active Elements in Nanotransducers. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	1
13	Electromechanical Carbon Nanotube Transducers. <i>Advanced Micro &amp; Nanosystems</i> , <b>2008</b> , 43-81		1
12	Electrical Control over Phonon Polarization in Strained Graphene. <i>Nano Letters</i> , <b>2021</b> , 21, 2898-2904	11.5	1
11	Metal free-covalent triazine frameworks as oxygen reduction reaction catalysts □ structureElectrochemical activity relationship. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 6191-6204	5.5	1
10	Low-frequency Noise Characterization of Graphene FET THz Detectors <b>2018</b> ,		1
9	Local Franck-Condon factors in suspended carbon nanotube quantum dots. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 248, 012019	0.3	0
8	NANO ELECTRO MECHANICAL SYSTEMS WITH SINGLE WALLED CARBON NANOTUBES AS FUNCTIONAL ELEMENTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 97-101		0

- 7 Phosphate-assisted efficient oxygen evolution over finely dispersed cobalt particles supported on graphene. *Catalysis Science and Technology*, **2021**, 11, 1039-1048 5.5 0
- 6 Graphen auf dem Weg zur Anwendung. *Physik in Unserer Zeit*, **2015**, 46, 269-270 0.1
- 5 Graphene quantum dots: transport experiments and local imaging 296-316
- 4 Poster: Electronic Structure, Lattice Dynamics, and Transport 471-522
- 3 Graphene Quantum Dots **2016**, 29-65
- 2 Using a Smartphone Pressure Sensor as Pitot Tube Speedometer. *Physics Teacher*, **2022**, 60, 273-275 0.4
- 1 Visualisierung von Messdaten eigener Sensormodule mit phyphox. *Physik in Unserer Zeit*, **2022**, 53, 151-152