

Martin Kalbac

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217
papers

5,425
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37
h-index

64
g-index

230
ext. papers

5,939
ext. citations

5.9
avg, IF

5.7
L-index

#	Paper	IF	Citations
217	Lithium Storage in Nanostructured TiO ₂ Made by Hydrothermal Growth. <i>Chemistry of Materials</i> , 2004 , 16, 477-485	9.6	385
216	Graphene substrates promote adherence of human osteoblasts and mesenchymal stromal cells. <i>Carbon</i> , 2010 , 48, 4323-4329	10.4	359
215	The influence of strong electron and hole doping on the Raman intensity of chemical vapor-deposition graphene. <i>ACS Nano</i> , 2010 , 4, 6055-63	16.7	211
214	Surface refinement and electronic properties of graphene layers grown on copper substrate: An XPS, UPS and EELS study. <i>Applied Surface Science</i> , 2011 , 257, 9785-9790	6.7	155
213	Interaction between graphene and copper substrate: The role of lattice orientation. <i>Carbon</i> , 2014 , 68, 440-451	10.4	145
212	Rapid identification of stacking orientation in isotopically labeled chemical-vapor grown bilayer graphene by Raman spectroscopy. <i>Nano Letters</i> , 2013 , 13, 1541-8	11.5	131
211	Novel catalysts, room temperature, and the importance of oxygen for the synthesis of single-walled carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1209-15	11.5	116
210	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 3682-3687	10.4	108
209	Raman spectroscopy and in situ Raman spectroelectrochemistry of bilayer C/C graphene. <i>Nano Letters</i> , 2011 , 11, 1957-63	11.5	97
208	Sensitization of TiO ₂ by Polypyridine Dyes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E155	3.9	97
207	Probing high-pressure properties of single-wall carbon nanotubes through fullerene encapsulation. <i>Physical Review B</i> , 2008 , 77,	3.3	85
206	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. <i>2D Materials</i> , 2018 , 5, 015016	5.9	71
205	Gadolinium-based mixed-metal nitride clusterfullerenes Gd(x)Sc(3-x)N@C ₈₀ (x=1, 2). <i>ChemPhysChem</i> , 2006 , 7, 1990-5	3.2	71
204	Ion-irradiation-induced defects in isotopically-labeled two layered graphene: enhanced in-situ annealing of the damage. <i>Advanced Materials</i> , 2013 , 25, 1004-9	24	66
203	Novel Synthesis of the TiO ₂ (B) Multilayer Templated Films. <i>Chemistry of Materials</i> , 2009 , 21, 1457-1464	9.6	66
202	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. <i>Nano Letters</i> , 2015 , 15, 3139-46	11.5	64
201	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

200	Multilayer Films from Templated TiO ₂ and Structural Changes during their Thermal Treatment. <i>Chemistry of Materials</i> , 2008 , 20, 2985-2993	9.6	59
199	Development of the tangential mode in the Raman spectra of SWCNT bundles during electrochemical charging. <i>Nano Letters</i> , 2008 , 8, 1257-64	11.5	57
198	The isomers of gadolinium scandium nitride clusterfullerenes Gd _x Sc _{3-x} N@C(80) (x=1, 2) and their influence on cluster structure. <i>Chemistry - A European Journal</i> , 2008 , 14, 2084-92	4.8	57
197	A facile route to the non-IPR fullerene Sc ₃ N@C ₆₈ : synthesis, spectroscopic characterization, and density functional theory computations (IPR=isolated pentagon rule). <i>Chemistry - A European Journal</i> , 2006 , 12, 7856-63	4.8	56
196	Electrochemical doping of chirality-resolved carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19613-9	3.4	55
195	The effect of SWCNT and nano-diamond films on human osteoblast cells. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4356-4359	1.3	52
194	Raman spectroscopy and in situ Raman spectroelectrochemistry of isotopically engineered graphene systems. <i>Accounts of Chemical Research</i> , 2015 , 48, 111-8	24.3	50
193	Electrochemical charging of individual single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2320-8	16.7	49
192	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. <i>Physical Review B</i> , 2013 , 88,	3.3	46
191	Two Positions of Potassium in Chemically Doped C(60) Peapods: An in situ Spectroelectrochemical Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6275-80	3.4	46
190	Fermi energy dependence of the G-band resonance Raman spectra of single-wall carbon nanotubes. <i>Physical Review B</i> , 2009 , 80,	3.3	44
189	Softening of the radial breathing mode in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 126804	7.4	44
188	Phase-pure nanocrystalline Li ₄ Ti ₅ O ₁₂ for a lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2003 , 8, 2-6	2.6	44
187	In-Situ Visible-Near-Infrared and Raman Spectroelectrochemistry of Double-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2005 , 15, 418-426	15.6	43
186	Temperature-induced strain and doping in monolayer and bilayer isotopically labeled graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	41
185	Observation of electronic Raman scattering in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 157401	7.4	41
184	Thermally Tunable Dual Emission of the d(8)-d(8) Dimer [Pt ₂ (EP ₂ O ₅ (BF ₂) ₂) ₄](4). <i>Inorganic Chemistry</i> , 2016 , 55, 2441-9	5.1	40
183	Influence of single-walled carbon nanotube films on metabolic activity and adherence of human osteoblasts. <i>Carbon</i> , 2007 , 45, 2266-2272	10.4	38

182	Electrochemical tuning of high energy phonon branches of double wall carbon nanotubes. <i>Carbon</i> , 2004 , 42, 2915-2920	10.4	38
181	Interaction of nanodiamond with in situ generated sp-carbon chains probed by Raman spectroscopy. <i>Carbon</i> , 2006 , 44, 3113-3116	10.4	37
180	Raman Spectroscopy as a Tool to Address Individual Graphene Layers in Few-Layer Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19046-19050	3.8	36
179	Sexithiophene encapsulated in a single-walled carbon nanotube: an in situ Raman spectroelectrochemical study of a peapod structure. <i>Chemistry - A European Journal</i> , 2010 , 16, 11753-9	4.8	36
178	Competition between the spring force constant and the phonon energy renormalization in electrochemically doped semiconducting single-walled carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 3532-7	11.5	36
177	Carbon isotope labelling in graphene research. <i>Nanoscale</i> , 2014 , 6, 6363-70	7.7	34
176	Effects of heat treatment on Raman spectra of two-layer 12C/13C graphene. <i>Chemistry - A European Journal</i> , 2012 , 18, 13877-84	4.8	32
175	An in situ Raman spectroelectrochemical study of the controlled doping of single walled carbon nanotubes in a conducting polymer matrix. <i>Carbon</i> , 2007 , 45, 1463-1470	10.4	32
174	Tuning of sorted double-walled carbon nanotubes by electrochemical charging. <i>ACS Nano</i> , 2010 , 4, 459-66	6.7	31
173	Study of Adenine and Guanine Oxidation Mechanism by Surface-Enhanced Raman Spectroelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8191-8198	3.8	30
172	Strain Assessment in Graphene Through the Raman 2D? Mode. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25651-25656	3.8	30
171	Graphene wrinkling induced by monodisperse nanoparticles: facile control and quantification. <i>Scientific Reports</i> , 2015 , 5, 15061	4.9	30
170	Large Variations of the Raman Signal in the Spectra of Twisted Bilayer Graphene on a BN Substrate. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 796-9	6.4	30
169	The study of the interaction of human mesenchymal stem cells and monocytes/macrophages with single-walled carbon nanotube films. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3514-3518	1.3	30
168	Heating Isotopically Labeled Bernal Stacked Graphene: A Raman Spectroscopy Study. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 549-54	6.4	29
167	Electrochemical doping of double-walled carbon nanotubes: an in situ Raman spectroelectrochemical study. <i>ChemPhysChem</i> , 2004 , 5, 274-7	3.2	29
166	Magnetic impurities in single-walled carbon nanotubes and graphene: a review. <i>Analyst, The</i> , 2016 , 141, 2639-56	5	28
165	Influence of the fetal bovine serum proteins on the growth of human osteoblast cells on graphene. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3001-7	5.4	28

164	Selective detection of phosgene by nanocrystalline diamond layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 2070-2073	1.6	28
163	Covalent Reactions on Chemical Vapor Deposition Grown Graphene Studied by Surface-Enhanced Raman Spectroscopy. <i>Chemistry - A European Journal</i> , 2016 , 22, 5404-8	4.8	28
162	Chemical States of Electrochemically Doped Single Wall Carbon Nanotubes As Probed by Raman Spectroelectrochemistry and ex Situ X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13856-13861	3.8	27
161	Graphene field effect transistor as a probe of electronic structure and charge transfer at organic molecule-graphene interfaces. <i>Nanoscale</i> , 2015 , 7, 1471-8	7.7	26
160	Electronic structure of the trimetal nitride fullerene Dy ₃ N@C ₈₀ . <i>Physical Review B</i> , 2005 , 72,	3.3	26
159	High-quality PVD graphene growth by fullerene decomposition on Cu foils. <i>Carbon</i> , 2017 , 119, 535-543	10.4	25
158	Gas sensing properties of nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2010 , 19, 196-200	3.9	25
157	The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes. <i>Carbon</i> , 2010 , 48, 832-838	10.4	25
156	Nanocarbon Allotropes-Graphene and Nanocrystalline Diamond-Promote Cell Proliferation. <i>Small</i> , 2016 , 12, 2499-509	11	24
155	Changes in the Electronic States of Single-Walled Carbon Nanotubes as Followed by a Raman Spectroelectrochemical Analysis of the Radial Breathing Mode. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16759-16763	3.8	24
154	Mastering the Wrinkling of Self-supported Graphene. <i>Scientific Reports</i> , 2017 , 7, 10003	4.9	23
153	Thermal treatment of fluorinated graphene: An in situ Raman spectroscopy study. <i>Carbon</i> , 2015 , 84, 347-354	10.4	23
152	Probing charge transfer between shells of double-walled carbon nanotubes sorted by outer-wall electronic type. <i>Chemistry - A European Journal</i> , 2011 , 17, 9806-15	4.8	23
151	Controlled oxygen plasma treatment of single-walled carbon nanotube films improves osteoblastic cells attachment and enhances their proliferation. <i>Carbon</i> , 2011 , 49, 2926-2934	10.4	23
150	Influence of an Extended Fullerene Cage: Study of Chemical and Electrochemical Doping of C ₇₀ Peapods by in Situ Raman Spectroelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1079-1085	3.8	23
149	Neutron Activated Sm Sealed in Carbon Nanocapsules for Imaging and Tumor Radiotherapy. <i>ACS Nano</i> , 2020 , 14, 129-141	16.7	23
148	The extended view on the empty C ₂ (3)-C ₈₂ fullerene: isolation, spectroscopic, electrochemical, and spectroelectrochemical characterization and DFT calculations. <i>Chemistry - A European Journal</i> , 2008 , 14, 9960-7	4.8	22
147	In situ EPR spectroelectrochemistry of single-walled carbon nanotubes and C ₆₀ fullerene peapods. <i>Carbon</i> , 2006 , 44, 2147-2154	10.4	22

146	Transformation of fullerene peapods to double-walled carbon nanotubes induced by UV radiation. <i>Carbon</i> , 2005 , 43, 1610-1616	10.4	22
145	Comparative study of shortening and cutting strategies of single-walled and multi-walled carbon nanotubes assessed by scanning electron microscopy. <i>Carbon</i> , 2018 , 139, 922-932	10.4	22
144	Towards the evaluation of defects in MoS using cryogenic photoluminescence spectroscopy. <i>Nanoscale</i> , 2020 , 12, 3019-3028	7.7	22
143	Monitoring the doping of graphene on SiO ₂ /Si substrates during the thermal annealing process. <i>RSC Advances</i> , 2016 , 6, 72859-72864	3.7	21
142	The effect of a thin gold layer on graphene: a Raman spectroscopy study. <i>RSC Advances</i> , 2014 , 4, 60929-60935	3.7	21
141	Fluorination of isotopically labeled turbostratic and Bernal stacked bilayer graphene. <i>Chemistry - A European Journal</i> , 2015 , 21, 1081-7	4.8	21
140	The intermediate frequency modes of single- and double-walled carbon nanotubes: a Raman spectroscopic and in situ Raman spectroelectrochemical study. <i>Chemistry - A European Journal</i> , 2006 , 12, 4451-7	4.8	21
139	Filling factor and electronic structure of Dy ₃ N@C ₈₀ filled single-wall carbon nanotubes studied by photoemission spectroscopy. <i>Physical Review B</i> , 2006 , 73,	3.3	21
138	Magnetic Properties of Iron Catalyst Particles in HiPco Single Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17303-17309	3.8	20
137	The change of the state of an endohedral fullerene by encapsulation into SWCNT: a Raman spectroelectrochemical study of Dy ₃ N@C ₈₀ peapods. <i>Chemistry - A European Journal</i> , 2007 , 13, 8811-7	4.8	20
136	Electrochemical and gas-phase photocatalytic performance of nanostructured TiO ₂ (B) prepared by novel synthetic route. <i>Progress in Solid State Chemistry</i> , 2005 , 33, 253-261	8	20
135	Effects of intercalation and inhomogeneous filling on the collapse pressure of double-wall carbon nanotubes. <i>Physical Review B</i> , 2012 , 86,	3.3	19
134	Influence of the Resonant Electronic Transition on the Intensity of the Raman Radial Breathing Mode of Single Walled Carbon Nanotubes during Electrochemical Charging. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16408-16413	3.8	19
133	Electrochemical and chemical redox doping of fullerene (C ₆₀) peapods. <i>Carbon</i> , 2006 , 44, 99-106	10.4	19
132	Temperature and face dependent copper-graphene interactions. <i>Carbon</i> , 2015 , 93, 793-799	10.4	18
131	Selective etching of thin single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4529-34	16.4	18
130	Novel catalysts for low temperature synthesis of single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3101-3105	1.3	18
129	Formation of wrinkles on graphene induced by nanoparticles: Atomic force microscopy study. <i>Carbon</i> , 2015 , 95, 573-579	10.4	17

128	Mass-related inversion symmetry breaking and phonon self-energy renormalization in isotopically labeled AB-stacked bilayer graphene. <i>Scientific Reports</i> , 2013 , 3, 2061	4.9	17
127	Effect of Bundling on the Tangential Displacement Mode in the Raman Spectra of Semiconducting Single-Walled Carbon Nanotubes during Electrochemical Charging. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1340-1345	3.8	17
126	In situ Raman spectroelectrochemistry as a tool for the differentiation of inner tubes of double-wall carbon nanotubes and thin single-wall carbon nanotubes. <i>Analytical Chemistry</i> , 2007 , 79, 9074-81	7.8	17
125	Structural properties and electrochemical behavior of CNT-TiO ₂ nanocrystal heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4040-4045	1.3	17
124	SPECTROELECTROCHEMICAL RECOGNITION OF CHEMICAL DOPANTS IN THE INNER SPACE OF CARBON NANOSTRUCTURES. <i>Nano</i> , 2006 , 01, 219-227	1.1	17
123	Decomposition of Fluorinated Graphene under Heat Treatment. <i>Chemistry - A European Journal</i> , 2016 , 22, 8990-7	4.8	17
122	Extended characterization methods for covalent functionalization of graphene on copper. <i>Carbon</i> , 2017 , 118, 200-207	10.4	16
121	Controlled doping of double walled carbon nanotubes and conducting polymers in a composite: An in situ Raman spectroelectrochemical study. <i>Composites Science and Technology</i> , 2009 , 69, 1553-1557	8.6	16
120	Raman spectroelectrochemistry of index-identified metallic carbon nanotubes: The resonance rule revisited. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3130-3133	1.3	15
119	Tuning the electronic properties of monolayer and bilayer transition metal dichalcogenide compounds under direct out-of-plane compression. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13333-13340 ^{3,6} ¹⁴		
118	Effect of layer number and layer stacking registry on the formation and quantification of defects in graphene. <i>Carbon</i> , 2016 , 98, 592-598	10.4	14
117	Large Variety of Behaviors for the Raman G ₂ Mode of Single Walled Carbon Nanotubes upon Electrochemical Gating Arising from Different (n,m) of Individual Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1751-1757	3.8	14
116	In situ spectroelectrochemistry of poly(N,N'-ethylenebis(salicylideneiminato)Cu(II)). <i>Analytical Chemistry</i> , 2004 , 76, 5918-23	7.8	14
115	Tuning the Reactivity of Graphene by Surface Phase Orientation. <i>Chemistry - A European Journal</i> , 2017 , 23, 1839-1845	4.8	13
114	Heterostructures from Single-Wall Carbon Nanotubes and TiO ₂ Nanocrystals. <i>Journal of the Electrochemical Society</i> , 2007 , 154, K19	3.9	13
113	Proton-Gradient-Driven Oriented Motion of Nanodiamonds Grafted to Graphene by Dynamic Covalent Bonds. <i>ACS Nano</i> , 2018 , 12, 7141-7147	16.7	12
112	Superlattice in collapsed graphene wrinkles. <i>Scientific Reports</i> , 2019 , 9, 9972	4.9	12
111	Multipurpose Nature of Rapid Covalent Functionalization on Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2015 , 21, 18631-41	4.8	12

110	An in situ Raman spectroelectrochemical study of the controlled doping of semiconducting single walled carbon nanotubes in a conducting polymer matrix. <i>Synthetic Metals</i> , 2009 , 159, 2245-2248	3.6	12
109	Re: determination of the exciton binding energy in single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 019701; author reply 019702	7.4	12
108	Strong and efficient doping of monolayer MoS by a graphene electrode. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25700-25706	3.6	12
107	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. <i>Physical Review B</i> , 2017 , 95,	3.3	11
106	Enhanced Raman scattering on functionalized graphene substrates. <i>2D Materials</i> , 2017 , 4, 025087	5.9	11
105	High-quality graphene on single crystal Ir(1 1 1) films on Si(1 1 1) wafers: Synthesis and multi-spectroscopic characterization. <i>Carbon</i> , 2015 , 81, 167-173	10.4	11
104	Strain and Piezo-Doping Mismatch between Graphene Layers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11193-11199	3.8	11
103	Stress and charge transfer in uniaxially strained CVD graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2355-2361	1.3	11
102	On the Suitability of Raman Spectroscopy to Monitor the Degree of Graphene Functionalization by Diazonium Salts. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22397-22402	3.8	11
101	In situ Raman spectroelectrochemical study of ¹³ C-labeled fullerene peapods and carbon nanotubes. <i>Small</i> , 2007 , 3, 1746-52	11	11
100	Incorporation of innovative compounds in nanostructured photoelectrochemical cells. <i>Journal of Materials Processing Technology</i> , 2005 , 161, 107-112	5.3	11
99	Temperature-induced strain release via rugae on the nanometer and micrometer scale in graphene monolayer. <i>Carbon</i> , 2017 , 119, 483-491	10.4	10
98	Preparation and Charge-Transfer Study in a Single-Walled Carbon Nanotube Functionalized with Poly(3,4-ethylenedioxythiophene). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21538-21546	3.8	10
97	S- and N-doped graphene-based catalysts for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020 , 340, 135975	6.7	10
96	Effect of Steam-Treatment Time on the Length and Structure of Single-Walled and Double-Walled Carbon Nanotubes. <i>ChemNanoMat</i> , 2016 , 2, 108-116	3.5	10
95	Thermoreversible magnetic nanochains. <i>Nanoscale</i> , 2019 , 11, 16773-16780	7.7	10
94	Chemical vapor deposition (CVD) growth of graphene films 2014 , 27-49		10
93	In situ optical spectroelectrochemistry of single-walled carbon nanotube thin films. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1279-1284	2.6	10

92	Synthesis of single wall carbon nanotubes with invariant diameters using a modified laser assisted chemical vapour deposition route. <i>Nanotechnology</i> , 2006 , 17, 5469-5473	3.4	10
91	The identification of dispersive and non-dispersive intermediate frequency modes of HiPco single walled carbon nanotubes by in situ Raman spectroelectrochemistry. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3134-3137	1.3	10
90	Host-Guest Interactions in Metal-Organic Frameworks Doped with Acceptor Molecules as Revealed by Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24245-24250	3.8	10
89	Laser-ablation-assisted SF6 decomposition for extensive and controlled fluorination of graphene. <i>Carbon</i> , 2019 , 145, 419-425	10.4	10
88	Imaging Nanoscale Inhomogeneities and Edge Delamination in As-Grown MoS2 Using Tip-Enhanced Photoluminescence. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900381	2.5	9
87	Graphene-enhanced Raman scattering on single layer and bilayers of pristine and hydrogenated graphene. <i>Scientific Reports</i> , 2020 , 10, 4516	4.9	9
86	Surface-enhanced Raman spectra on graphene. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 168-173	2.3	9
85	Hydrothermal preparation of hydrophobic and hydrophilic nanoparticles of iron oxide and a modification with CM-dextran. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	9
84	Evolution of temperature-induced strain and doping of double-layer graphene: An in situ Raman spectral mapping study. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2401-2406	1.3	9
83	Modulated surface of single-layer graphene controls cell behavior. <i>Carbon</i> , 2014 , 72, 207-214	10.4	9
82	An Anomalous Enhancement of the Ag(2) Mode in the Resonance Raman Spectra of C60 Embedded in Single-Walled Carbon Nanotubes during Anodic Charging. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2505-2511	3.8	9
81	In situ Raman spectroelectrochemistry of SWCNT bundles: Development of the tangential mode during electrochemical charging in different electrolyte solutions. <i>Diamond and Related Materials</i> , 2009 , 18, 972-974	3.5	9
80	HRTEM and EELS investigation of functionalized carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 109-114	3	9
79	Isolated nanoribbons of carbon nanotubes and peapods. <i>ChemPhysChem</i> , 2005 , 6, 426-30	3.2	9
78	Photovoltaic characterization of graphene/silicon Schottky junctions from local and macroscopic perspectives. <i>Chemical Physics Letters</i> , 2017 , 676, 82-88	2.5	8
77	Do defects enhance fluorination of graphene?. <i>RSC Advances</i> , 2016 , 6, 81471-81476	3.7	8
76	Structure and magnetic response of a residual metal catalyst in highly purified single walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5992-6000	3.6	8
75	EDOT polymerization at photolithographically patterned functionalized graphene. <i>Carbon</i> , 2017 , 113, 33-39	10.4	8

74	Charging of self-doped poly(anilineboronic acid) films studied by in situ ESR/UV/Vis/NIR spectroelectrochemistry and ex situ FTIR spectroscopy. <i>ChemPhysChem</i> , 2011 , 12, 2920-4	3.2	8
73	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
72	Redox Doping of Double-Wall Carbon Nanotubes and C60 Peapods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 13, 115-119	1.8	8
71	SERS of Isotopically Labeled ¹² C/ ¹³ C Graphene Bilayer/Gold Nanostructured Film Hybrids: Graphene Layer as Spacer and SERS Probe. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11680-11686	3.8	7
70	Functionalization of Hydrogenated Chemical Vapour Deposition-Grown Graphene by On-Surface Chemical Reactions. <i>Chemistry - A European Journal</i> , 2017 , 23, 4073-4078	4.8	7
69	Raman excitation profiles of hybrid systems constituted by single-layer graphene and free base phthalocyanine: Manifestations of two mechanisms of graphene-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1270-1281	2.3	7
68	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4063-4071	3.6	7
67	Graphene under direct compression: Stress effects and interlayer coupling. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2336-2341	1.3	7
66	Raman spectroscopy investigation of defect occurrence in graphene grown on copper single crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2653-2658	1.3	7
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