

Huan-Cheng Chang

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282 papers	12,707 citations	57 h-index	102 g-index
299 ext. papers	13,895 ext. citations	5.8 avg, IF	6.3 L-index

#	Paper	IF	Citations
282	Bright fluorescent nanodiamonds: no photobleaching and low cytotoxicity. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17604-5	16.4	814
281	Characterization and application of single fluorescent nanodiamonds as cellular biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 727-32	11.5	725
280	Mass production and dynamic imaging of fluorescent nanodiamonds. <i>Nature Nanotechnology</i> , 2008 , 3, 284-8	28.7	625
279	In vivo imaging and toxicity assessments of fluorescent nanodiamonds in <i>Caenorhabditis elegans</i> . <i>Nano Letters</i> , 2010 , 10, 3692-9	11.5	444
278	Adsorption and Immobilization of Cytochrome c on Nanodiamonds. <i>Langmuir</i> , 2004 , 20, 5879-5884	4	346
277	Infrared Spectra of H ⁺ (H ₂ O) ₅₋₈ Clusters: Evidence for Symmetric Proton Hydration. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1398-1410	16.4	309
276	High-affinity capture of proteins by diamond nanoparticles for mass spectrometric analysis. <i>Analytical Chemistry</i> , 2005 , 77, 259-65	7.8	230
275	Fluorescent Nanodiamond: A Versatile Tool for Long-Term Cell Tracking, Super-Resolution Imaging, and Nanoscale Temperature Sensing. <i>Accounts of Chemical Research</i> , 2016 , 49, 400-7	24.3	208
274	Tracking the engraftment and regenerative capabilities of transplanted lung stem cells using fluorescent nanodiamonds. <i>Nature Nanotechnology</i> , 2013 , 8, 682-9	28.7	208
273	The long-term stability and biocompatibility of fluorescent nanodiamond as an in vivo contrast agent. <i>Biomaterials</i> , 2012 , 33, 7794-802	15.6	197
272	Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. <i>Physical Review B</i> , 2010 , 82,	3.3	192
271	Unambiguous observation of shape effects on cellular fate of nanoparticles. <i>Scientific Reports</i> , 2014 , 4, 4495	4.9	165
270	Superresolution imaging of albumin-conjugated fluorescent nanodiamonds in cells by stimulated emission depletion. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2262-5	16.4	149
269	Functionalized fluorescent nanodiamonds for biomedical applications. <i>Nanomedicine</i> , 2009 , 4, 47-55	5.6	146
268	Detection of a few metallo-protein molecules using color centers in nanodiamonds. <i>Nano Letters</i> , 2013 , 13, 3305-9	11.5	140
267	Protonated clathrate cages enclosing neutral water molecules: (H ⁺)(H ₂ O) ₂₁ and (H ⁺)(H ₂ O) ₂₈ . <i>Journal of Chemical Physics</i> , 2005 , 122, 074315	3.9	139
266	Two-photon excited fluorescence of nitrogen-vacancy centers in proton-irradiated type Ib diamond. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9379-86	2.8	138

265	The biocompatibility of fluorescent nanodiamonds and their mechanism of cellular uptake. <i>Nanotechnology</i> , 2009 , 20, 425103	3.4	134
264	Adsorption and hydrolytic activity of lysozyme on diamond nanocrystallites. <i>Diamond and Related Materials</i> , 2007 , 16, 872-876	3.5	125
263	Receptor-mediated cellular uptake of folate-conjugated fluorescent nanodiamonds: a combined ensemble and single-particle study. <i>Small</i> , 2009 , 5, 2716-21	11	124
262	Polylysine-coated diamond nanocrystals for MALDI-TOF mass analysis of DNA oligonucleotides. <i>Analytical Chemistry</i> , 2005 , 77, 4273-7	7.8	120
261	Sub-20-nm fluorescent nanodiamonds as photostable biolabels and fluorescence resonance energy transfer donors. <i>Advanced Materials</i> , 2010 , 22, 843-7	24	114
260	The exocytosis of fluorescent nanodiamond and its use as a long-term cell tracker. <i>Small</i> , 2011 , 7, 3363-70	7.1	111
259	Investigations of Protonated and Deprotonated Water Clusters Using a Low-Temperature 22-Pole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4217-4225	2.8	109
258	Nanodiamonds for optical bioimaging. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 374021	3	108
257	Highly Fluorescent Nanodiamonds Protein-Functionalized for Cell Labeling and Targeting. <i>Advanced Functional Materials</i> , 2013 , 23, 5737-5745	15.6	106
256	Structures and Isomeric Transitions of $\text{NH}_4^+(\text{H}_2\text{O})_{3-6}$: From Single to Double Rings. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8777-8788	16.4	104
255	Matrix-assisted laser desorption/ionization (MALDI) mechanism revisited. <i>Analytica Chimica Acta</i> , 2007 , 582, 1-9	6.6	99
254	Recent advances in understanding the structures of medium-sized protonated water clusters. <i>International Reviews in Physical Chemistry</i> , 2005 , 24, 553-578	7	97
253	Infrared fluorescence from a monolayer of CO on NaCl(100). <i>Physical Review Letters</i> , 1990 , 65, 2125-2128	7.4	94
252	Nanodiamond-mediated drug delivery and imaging: challenges and opportunities. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 735-49	8	85
251	Preparation and characterization of green fluorescent nanodiamonds for biological applications. <i>Diamond and Related Materials</i> , 2009 , 18, 567-573	3.5	84
250	Infrared spectra and isomeric structures of hydroxide ion-water clusters $\text{OH}^-(\text{H}_2\text{O})_{1-5}$: a comparison with $\text{H}_3\text{O}^+(\text{H}_2\text{O})_{1-5}$. <i>Molecular Physics</i> , 2001 , 99, 1161-1173	1.7	83
249	Epitaxial growth of CO on NaCl(100) studied by infrared spectroscopy. <i>Journal of Chemical Physics</i> , 1988 , 89, 7561-7568	3.9	83
248	Fluorescent nanodiamond tracking reveals intraneuronal transport abnormalities induced by brain-disease-related genetic risk factors. <i>Nature Nanotechnology</i> , 2017 , 12, 322-328	28.7	79

- 247 Time-Resolved Luminescence Nanothermometry with Nitrogen-Vacancy Centers in Nanodiamonds. *Nano Letters*, **2015**, 15, 3945-52 11.5 78
- 246 Vibrational predissociation spectra and hydrogen-bond topologies of H+(H₂O)₉₋₁₁. *Physical Chemistry Chemical Physics*, **2005**, 7, 938-44 3.6 78
- 245 Infrared spectroscopy of CO on NaCl(100) IV. Bandshape analysis. *Surface Science*, **1990**, 240, 193-210 1.8 78
- 244 Rapid endosomal escape of prickly nanodiamonds: implications for gene delivery. *Scientific Reports*, **2015**, 5, 11661 4.9 77
- 243 High-salt-tolerance matrix for facile detection of glucose in rat brain microdialysates by MALDI mass spectrometry. *Analytical Chemistry*, **2012**, 84, 465-9 7.8 76
- 242 Direct Observation of Hydrogen Etching Anisotropy on Diamond Single Crystal Surfaces. *Physical Review Letters*, **1997**, 78, 3713-3716 7.4 74
- 241 Selective extraction and enrichment of multiphosphorylated peptides using polyarginine-coated diamond nanoparticles. *Analytical Chemistry*, **2008**, 80, 3791-7 7.8 74
- 240 Progressive stabilization of zwitterionic structures in [H(Ser)(2-8)]⁺ studied by infrared photodissociation spectroscopy. *Angewandte Chemie - International Edition*, **2006**, 45, 4130-4 16.4 72
- 239 Creation of high density ensembles of nitrogen-vacancy centers in nitrogen-rich type Ib nanodiamonds. *Nanotechnology*, **2013**, 24, 315702 3.4 70
- 238 Infrared spectroscopy of CO on NaCl(100). *Surface Science*, **1989**, 216, 93-104 1.8 70
- 237 Two-photon fluorescence correlation spectroscopy of lipid-encapsulated fluorescent nanodiamonds in living cells. *Optics Express*, **2010**, 18, 5896-905 3.3 69
- 236 Solid-phase extraction and elution on diamond (SPEED): a fast and general platform for proteome analysis with mass spectrometry. *Analytical Chemistry*, **2006**, 78, 4228-34 7.8 69
- 235 Fluorescent nanodiamond as a probe for the intercellular transport of proteins in vivo. *Biomaterials*, **2013**, 34, 8352-60 15.6 67
- 234 The Ar₂F₂ intermolecular potential: Overtone spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **1993**, 99, 9337-9349 3.9 67
- 233 Identifying 2- and 3-coordinated H₂O in protonated ion-water clusters by vibrational pre-dissociation spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **1997**, 107, 9695-9698 3.9 66
- 232 Carbon structure in nanodiamonds elucidated from Raman spectroscopy. *Carbon*, **2017**, 121, 322-329 10.4 65
- 231 Wide-field imaging and flow cytometric analysis of cancer cells in blood by fluorescent nanodiamond labeling and time gating. *Scientific Reports*, **2014**, 4, 5574 4.9 65
- 230 A facile ratiometric fluorescent chemodosimeter for hydrazine based on InGaN nanowires and its applications in living cells. *Dyes and Pigments*, **2014**, 103, 9-20 4.6 63

229	The vibrational second overtones of HF dimer: A quartet. <i>Journal of Chemical Physics</i> , 1994 , 100, 1-14	3.9	62
228	Photon bunching in cathodoluminescence. <i>Physical Review Letters</i> , 2015 , 114, 197401	7.4	61
227	Ab initio Studies of NH ₄ +(H ₂ O) ₁₋₅ and the Influence of Hydrogen-Bonding Nonadditivity on Geometries and Vibrations. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 3123-3135	2.8	60
226	Purcell-Enhanced Single-Photon Emission from Nitrogen-Vacancy Centers Coupled to a Tunable Microcavity. <i>Physical Review Applied</i> , 2016 , 6,	4.3	58
225	Infrared spectroscopy and vibrational relaxation of CH _x and CD _x stretches on synthetic diamond nanocrystal surfaces. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11081-11088		57
224	Nanoparticle distribution during systemic inflammation is size-dependent and organ-specific. <i>Nanoscale</i> , 2015 , 7, 15863-72	7.7	56
223	Laser-induced acoustic desorption mass spectrometry of single bioparticles. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1423-6	16.4	56
222	Isomeric Transitions between Linear and Cyclic H+(CH ₃ OH) _{4,5} : Implications for Proton Migration in Liquid Methanol. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2941-2944	2.8	56
221	Labeling of neuronal differentiation and neuron cells with biocompatible fluorescent nanodiamonds. <i>Scientific Reports</i> , 2014 , 4, 5004	4.9	54
220	Behaviors of an excess proton in solute-containing water clusters: A case study of H+(CH ₃ OH)(H ₂ O) _{1B} . <i>Journal of Chemical Physics</i> , 2000 , 112, 176-188	3.9	54
219	Measuring Nanoscale Thermostability of Cell Membranes with Single Gold-Diamond Nanohybrids. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3025-3030	16.4	53
218	A new pyrene-based aggregation induced ratiometric emission probe for selective detections of trivalent metal ions and its living cell application. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 338-345	8.5	52
217	Fluorescent nanodiamonds enable quantitative tracking of human mesenchymal stem cells in miniature pigs. <i>Scientific Reports</i> , 2017 , 7, 45607	4.9	50
216	Charge-monitoring laser-induced acoustic desorption mass spectrometry for cell and microparticle mass distribution measurement. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3865-9	16.4	50
215	The effect of fluorescent nanodiamonds on neuronal survival and morphogenesis. <i>Scientific Reports</i> , 2014 , 4, 6919	4.9	49
214	Scaling laws of the cavity enhancement for nitrogen-vacancy centers in diamond. <i>Physical Review A</i> , 2013 , 88,	2.6	48
213	Migration of an Excess Proton upon Asymmetric Hydration: H+[(CH ₃) ₂ O](H ₂ O) _n as a Model System. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4443-4450	16.4	48
212	Measuring masses of single bacterial whole cells with a quadrupole ion trap. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11766-7	16.4	47

211	Local structure dependence of the charge transfer band in nanocrystalline Y ₂ O ₃ :Eu ³⁺ . <i>Chemical Physics Letters</i> , 2005 , 405, 314-317	2.5	47
210	All-optical single-nanoparticle ratiometric thermometry with a noise floor of 0.3 K Hz ^{-1/2} . <i>Nanotechnology</i> , 2015 , 26, 245501	3.4	45
209	Fluorescence enhancement and lifetime modification of single nanodiamonds near a nanocrystalline silver surface. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1508-14	3.6	45
208	The vibrational dephasing and relaxation of CH and CD stretches on diamond surfaces: An anomaly. <i>Journal of Chemical Physics</i> , 1996 , 105, 3975-3983	3.9	45
207	Studying protonated ion hydration by infrared spectroscopy of size-selected NH ₄ ⁺ (H ₂ O) _n clusters in a free jet expansion. <i>International Journal of Mass Spectrometry</i> , 1998 , 179-180, 91-102	1.9	43
206	State-specific vibrational predissociation and interconversion tunneling quenching at 3 μ m and 3 μ m of (HF) ₂ . <i>Journal of Chemical Physics</i> , 1993 , 98, 9266-9278	3.9	43
205	Single particle tracking of fluorescent nanodiamonds in cells and organisms. <i>Current Opinion in Solid State and Materials Science</i> , 2017 , 21, 35-42	12	42
204	Nanodiamond as a Possible Carrier of Extended Red Emission. <i>Astrophysical Journal</i> , 2006 , 639, L63-L66	4.7	42
203	Single-particle mass spectrometry of polystyrene microspheres and diamond nanocrystals. <i>Analytical Chemistry</i> , 2002 , 74, 232-8	7.8	42
202	Observation of ArHF(3000) and its combination modes by laser-induced fluorescence. <i>Journal of Chemical Physics</i> , 1993 , 98, 2497-2506	3.9	42
201	Photoacoustic emission from fluorescent nanodiamonds enhanced with gold nanoparticles. <i>Biomedical Optics Express</i> , 2012 , 3, 1662-29	3.5	41
200	Mapping protein cysteine sulfonic acid modifications with specific enrichment and mass spectrometry: an integrated approach to explore the cysteine oxidation. <i>Proteomics</i> , 2010 , 10, 2961-71	4.8	41
199	The free-OH stretching frequencies of 3-coordinated H ₂ O in water clusters and on ice surfaces. <i>Chemical Physics Letters</i> , 1998 , 289, 373-382	2.5	41
198	Surface C-H stretching features on meteoritic nanodiamonds. <i>Astronomy and Astrophysics</i> , 2004 , 416, 235-241	5.1	40
197	Charge monitoring cell mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 2524-30	7.8	39
196	Direct synthesis of nanodiamonds by femtosecond laser irradiation of ethanol. <i>Scientific Reports</i> , 2016 , 6, 33966	4.9	39
195	N-(1-naphthyl) ethylenediamine dinitrate: a new matrix for negative ion MALDI-TOF MS analysis of small molecules. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1454-60	3.5	38
194	High-speed mass analysis of whole erythrocytes by charge-detection quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 7401-7	7.8	36

193	Numerous isomers of serine octamer ions characterized by infrared photodissociation spectroscopy. <i>ChemPhysChem</i> , 2009 , 10, 2603-6	3.2	35
192	Optical Nanoscale Thermometry: From Fundamental Mechanisms to Emerging Practical Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 2000183	8.1	34
191	Probing Adsorption, Orientation and Conformational Changes of Cytochrome c on Fused Silica Surfaces with the Soret Band \square <i>Journal of Physical Chemistry A</i> , 2003 , 107, 10687-10694	2.8	34
190	Multiphoton-Excited Luminescence from Diamond Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4251-4263	3.4	34
189	The quantum efficiency of vibrationally induced desorption for a monolayer of CO on NaCl(100). <i>Chemical Physics</i> , 1989 , 139, 55-65	2.3	34
188	Sub-diffraction imaging of nitrogen-vacancy centers in diamond by stimulated emission depletion and structured illumination. <i>RSC Advances</i> , 2014 , 4, 11305	3.7	33
187	Protein Attachment on Nanodiamonds. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7704-11	2.8	32
186	Gold/diamond nanohybrids for quantum sensing applications. <i>EPJ Quantum Technology</i> , 2015 , 2,	6.9	32
185	Ion trap mass spectrometry of fluorescently labeled nanoparticles. <i>Analytical Chemistry</i> , 2003 , 75, 1805-118	1.8	32
184	Quantum chemical modeling of photoadsorption properties of the nitrogen-vacancy point defect in diamond. <i>Journal of Computational Chemistry</i> , 2009 , 30, 119-31	3.5	31
183	Structural Isomerism and Competitive Proton Solvation between Methanol and Water in $H^+(CH_3OH)_m(H_2O)_n, m+n=4$ \square <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2859-2866	2.8	31
182	Fragmentation of heme and hemin ⁺ with sequential loss of carboxymethyl groups: A DFT and mass-spectrometry study. <i>Chemical Physics Letters</i> , 2005 , 415, 362-369	2.5	31
181	Optical detection and charge-state analysis of MALDI-generated particles with molecular masses larger than 5 MDa. <i>Analytical Chemistry</i> , 2002 , 74, 4434-40	7.8	31
180	Targeted nanodiamonds as phenotype-specific photoacoustic contrast agents for breast cancer. <i>Nanomedicine</i> , 2015 , 10, 573-87	5.6	30
179	The absolute absorption strength and vibrational coupling of CH stretching on diamond C(111). <i>Journal of Chemical Physics</i> , 1997 , 106, 7411-7421	3.9	30
178	Facile MALDI-MS analysis of neutral glycans in NaOH-doped matrixes: microwave-assisted deglycosylation and one-step purification with diamond nanoparticles. <i>Analytical Chemistry</i> , 2008 , 80, 6809-14	7.8	30
177	Theoretical DFT study of fragmentation and association of heme and hemin. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9207-17	2.8	30
176	Microscopy-based mass measurement of a single whole virus in a cylindrical ion trap. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8131-4	16.4	30

175	The hemocompatibility of oxidized diamond nanocrystals for biomedical applications. <i>Scientific Reports</i> , 2013 , 3, 3044	4.9	29
174	Fluorescence lifetime imaging microscopy of nanodiamonds in vivo 2013 ,		29
173	Multi-color imaging of fluorescent nanodiamonds in living HeLa cells using direct electron-beam excitation. <i>ChemPhysChem</i> , 2014 , 15, 721-6	3.2	29
172	Molar mass and molar mass distribution of polystyrene particle size standards. <i>Analytical Chemistry</i> , 2005 , 77, 7084-9	7.8	29
171	Optical detection methods for mass spectrometry of macroions. <i>Mass Spectrometry Reviews</i> , 2004 , 23, 443-65	11	29
170	Laser-induced fluorescence/ion trap as a detector for mass spectrometric analysis of nanoparticles. <i>International Journal of Mass Spectrometry</i> , 2003 , 229, 67-76	1.9	29
169	Hydrogen Bond Rearrangements and Interconversions of H+(CH ₃ OH) ₄ H ₂ O Cluster Isomers[] <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10937-10944	2.8	29
168	Characterization of CH stretches on diamond C(111) single- and nanocrystal surfaces by infrared absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1996 , 105, 8977-8978	3.9	29
167	AS1411 aptamer-conjugated Gd ₂ O ₃ :Eu nanoparticles for target-specific computed tomography/magnetic resonance/fluorescence molecular imaging. <i>Nano Research</i> , 2014 , 7, 658-669	10	28
166	Photoacoustic contrast imaging of biological tissues with nanodiamonds fabricated for high near-infrared absorbance. <i>Journal of Biomedical Optics</i> , 2013 , 18, 26018	3.5	28
165	Calibration of a frequency-scan quadrupole ion trap mass spectrometer for microparticle mass analysis. <i>International Journal of Mass Spectrometry</i> , 2008 , 270, 8-15	1.9	28
164	Characterization of Protonated Formamide-Containing Clusters by Infrared Spectroscopy and Ab Initio Calculations: I. O-Protonation. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9556-9565	2.8	28
163	Characterization of Protonated Formamide-Containing Clusters by Infrared Spectroscopy and ab Initio Calculations. II. Hydration of Formamide in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8906-8915	2.8	27
162	Adsorption and immobilization of cytochrome c on nanodiamonds. <i>Langmuir</i> , 2004 , 20, 5879-84	4	27
161	STED-TEM Correlative Microscopy Leveraging Nanodiamonds as Intracellular Dual-Contrast Markers. <i>Small</i> , 2018 , 14, 1701807	11	26
160	Intracellular Trafficking of Fluorescent Nanodiamonds and Regulation of Their Cellular Toxicity. <i>ACS Omega</i> , 2017 , 2, 2689-2693	3.9	26
159	Tracking and Finding Slow-Proliferating/Quiescent Cancer Stem Cells with Fluorescent Nanodiamonds. <i>Small</i> , 2015 , 11, 4394-402	11	26
158	SAX microscopy with fluorescent nanodiamond probes for high-resolution fluorescence imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 1946-54	3.5	26

157	Laboratory Investigation of Hydrogenated Diamond Surfaces: Implications for the Formation and Size of Interstellar Nanodiamonds. <i>Astrophysical Journal</i> , 2002 , 581, L55-L58	4.7	26
156	Diamond Nanothermometry. <i>ChemNanoMat</i> , 2018 , 4, 15-27	3.5	26
155	Highly stable lipid-encapsulation of fluorescent nanodiamonds for bioimaging applications. <i>Chemical Communications</i> , 2018 , 54, 1000-1003	5.8	25
154	Layer-by-layer thin film of reduced graphene oxide and gold nanoparticles as an effective sample plate in laser-induced desorption/ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2014 , 809, 97-103	6.6	25
153	Hydrogen-Bond Rearrangement and Intermolecular Proton Transfer in Protonated Methanol Clusters. <i>Israel Journal of Chemistry</i> , 1999 , 39, 231-243	3.4	25
152	Vibrational relaxation of molecules on alkali halide surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990 , 54-55, 39-63	1.7	25
151	Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds. <i>Nanoscale</i> , 2016 , 8, 11588-94	7.7	25
150	Directional fluorescence emission from a compact plasmonic-diamond hybrid nanostructure. <i>Laser and Photonics Reviews</i> , 2016 , 10, 647-655	8.3	24
149	Nonblinking green emission from single H3 color centers in nanodiamonds. <i>Applied Physics Letters</i> , 2011 , 98, 193116	3.4	24
148	Quantum Chemical Modeling of Photoabsorption Properties of Two- and Three-Nitrogen Vacancy Point Defects in Diamond. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10432-10440	3.8	24
147	Ultrahigh-mass mass spectrometry of single biomolecules and bioparticles. <i>Annual Review of Analytical Chemistry</i> , 2009 , 2, 169-85	12.5	24
146	Size dependence of CH stretching features on diamond nanocrystal surfaces: Infrared spectroscopy and density functional theory calculations. <i>Journal of Chemical Physics</i> , 2003 , 119, 10626-10632	3.9	24
145	Bioorthogonal Fluorescent Nanodiamonds for Continuous Long-Term Imaging and Tracking of Membrane Proteins. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19774-19781	9.5	23
144	Nanodiamond-Mediated Intercellular Transport of Proteins through Membrane Tunneling Nanotubes. <i>Small</i> , 2015 , 11, 6097-105	11	23
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142	Mesenchymal stem/stromal cell-based therapy: mechanism, systemic safety and biodistribution for precision clinical applications. <i>Journal of Biomedical Science</i> , 2021 , 28, 28	13.3	23
141	Nanodiamond enhances immune responses in mice against recombinant HA/H7N9 protein. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 69	9.4	22
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- 135 Quenching nitrogen-vacancy center photoluminescence with an infrared pulsed laser. *New Journal of Physics*, **2013**, 15, 033030 2.9 21
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- 133 Effect of temperature on the infrared and sum-frequency generation spectra of adsorbates. *Journal of Chemical Physics*, **1997**, 106, 5920-5927 3.9 20
- 132 Identification of CH₃OH₂⁺ and H₃O⁺-centered cluster isomers from fragment-dependent vibrational predissociation spectra of H⁺(CH₃OH)₄H₂O. *Journal of Chemical Physics*, **2000**, 112, 7279-7282 3.9 20
- 131 Symmetric double-well potential model and its application to vibronic spectra: studies of inversion modes of ammonia and nitrogen-vacancy defect centers in diamond. *Journal of Physical Chemistry A*, **2007**, 111, 9347-54 2.8 19
- 130 Efficient nitrogen-vacancy centers' fluorescence excitation and collection from micrometer-sized diamond by a tapered optical fiber in endoscope-type configuration. *Optics Express*, **2019**, 27, 6734-6745 3.3 19
- 129 **2018**, 19
- 128 Recent Developments and Applications of Nanodiamonds as Versatile Bioimaging Agents. *Journal of the Chinese Chemical Society*, **2014**, 61, 67-76 1.5 18
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- 126 Stabilization of yeast cytochrome C covalently immobilized on fused silica surfaces. *Journal of the American Chemical Society*, **2004**, 126, 10828-9 16.4 18
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- 124 Nanodiamond-supported silver nanoparticles as potent and safe antibacterial agents. *Scientific Reports*, **2019**, 9, 13164 4.9 17
- 123 All-Optical Thermometry with Nitrogen-Vacancy Centers in Nanodiamond-Embedded Polymer Films. *Journal of Physical Chemistry C*, **2019**, 123, 15366-15374 3.8 17
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