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An electrochemical avenue to green-luminescent graphene quantum dots as potential electron-acceptors for photovoltaics

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#	Paper	IF	Citations
1401	Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes. 2011 , 21, 15431		194
1400	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. 2011 , 47, 6858-60		1295
1399	Acid-driven, microwave-assisted production of photoluminescent carbon nitride dots from N,N-dimethylformamide. 2011 , 1, 951		71
1398	Preparation of photoluminescent carbon nitride dots from CCl ₄ and 1,2-ethylenediamine: a heat-treatment-based strategy. 2011 , 21, 11726		163
1397	Fluorescent carbon nanoparticles: electrochemical synthesis and their pH sensitive photoluminescence properties. 2011 , 35, 2666		107
1396	Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. 2011 , 2, 1113-8		195
1395	Bottom-up fabrication of photoluminescent graphene quantum dots with uniform morphology. 2011 , 133, 15221-3		700
1394	Cu ₂ ZnSnS ₄ nanocrystals and graphene quantum dots for photovoltaics. 2011 , 3, 3040-8		85
1393	Graphene - a promising material for organic photovoltaic cells. <i>Advanced Materials</i> , 2011 , 23, 5342-58	24	218
1392	Graphene-based functional materials for organic solar cells [Invited]. 2012 , 2, 814		31
1391	Experimental Review of Graphene. 2012 , 2012, 1-56		303
1390	Upconversion and downconversion fluorescent graphene quantum dots: ultrasonic preparation and photocatalysis. 2012 , 6, 1059-64		813
1389	One-pot hydrothermal synthesis of graphene quantum dots surface-passivated by polyethylene glycol and their photoelectric conversion under near-infrared light. 2012 , 36, 97-101		403
1388	Graphene-based materials for energy applications. 2012 , 37, 1265-1272		113
1387	Facile synthesis of water-soluble, highly fluorescent graphene quantum dots as a robust biological label for stem cells. 2012 , 22, 7461		581
1386	Honeycomb architecture of carbon quantum dots: a new efficient substrate to support gold for stronger SERS. 2012 , 4, 1776-81		65
1385	A Biocompatible Fluorescent Ink Based on Water-Soluble Luminescent Carbon Nanodots. 2012 , 124, 12381-12384		230

- 1384 A biocompatible fluorescent ink based on water-soluble luminescent carbon nanodots. **2012**, 51, 12215-8 879
- 1383 Reply to comment on One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black **2012**, 22, 21777 7
- 1382 Electrochemical Integration of Graphene with Light-Absorbing Copper-Based Thin Films. **2012**, 116, 1200-1204 3
- 1381 Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. **2012**, 134, 15-8 1623
- 1380 Graphene quantum dots: an emerging material for energy-related applications and beyond. **2012**, 5, 8869 698
- 1379 ZnO/Graphene Quantum Dot Solid-State Solar Cell. **2012**, 116, 20127-20131 175
- 1378 Graphene quantum dots with controllable surface oxidation, tunable fluorescence and up-conversion emission. **2012**, 2, 2717 337
- 1377 Graphene quantum dots derived from carbon fibers. **2012**, 12, 844-9 1779
- 1376 Scanning transmission X-ray microscopy, X-ray photoelectron spectroscopy, and cyclic voltammetry study on the enhanced visible photocatalytic mechanism of carbon/TiO₂ nanohybrids. **2012**, 258, 3846-3853 23
- 1375 Graphene quantum dots as autophagy-inducing photodynamic agents. **2012**, 33, 7084-92 309
- 1374 An efficient and stable fluorescent graphene quantum dot/agar composite as a converting material in white light emitting diodes. **2012**, 22, 22378 150
- 1373 Electrochemical preparation of luminescent graphene quantum dots from multiwalled carbon nanotubes. **2012**, 18, 12522-8 278
- 1372 Graphene quantum dots: emergent nanolights for bioimaging, sensors, catalysis and photovoltaic devices. **2012**, 48, 3686-99 1627
- 1371 Embedding graphene nanoparticles into poly(N,N'-dimethylacrylamine) to prepare transparent nanocomposite films with high refractive index. **2012**, 22, 21218 25
- 1370 Amino acids as the source for producing carbon nanodots: microwave assisted one-step synthesis, intrinsic photoluminescence property and intense chemiluminescence enhancement. **2012**, 48, 9634-6 312
- 1369 Carbon nanodots: synthesis, properties and applications. **2012**, 22, 24230 2021
- 1368 Solar Photoconversion Using Graphene/TiO₂ Composites: Nanographene Shell on TiO₂ Core versus TiO₂ Nanoparticles on Graphene Sheet. **2012**, 116, 1535-1543 272
- 1367 Creating high yield water soluble luminescent graphene quantum dots via exfoliating and disintegrating carbon nanotubes and graphite flakes. **2012**, 48, 10177-9 329

1366	Cutting sp ² clusters in graphene sheets into colloidal graphene quantum dots with strong green fluorescence. 2012 , 22, 3314	382
1365	One-pot synthesis of N-doped carbon dots with tunable luminescence properties. 2012 , 22, 16714	316
1364	Synthesis and upconversion luminescence of N-doped graphene quantum dots. 2012 , 101, 103107	153
1363	Production and processing of graphene and 2d crystals. 2012 , 15, 564-589	745
1362	Fluorescence resonance energy transfer quenching at the surface of graphene quantum dots for ultrasensitive detection of TNT. 2012 , 101, 192-7	176
1361	Synthesis of gold@carbon dots composite nanoparticles for surface enhanced Raman scattering. 2012 , 14, 7360-6	132
1360	Spectroelectrochemical investigation of an electrogenerated graphitic oxide solid-electrolyte interphase. 2012 , 84, 8190-7	10
1359	One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. 2012 , 22, 8764	466
1358	Prospects and challenges of organic/group IV nanomaterial solar cells. 2012 , 22, 4216	41
1357	Influence of pH on the fluorescence properties of graphene quantum dots using ozonation pre-oxide hydrothermal synthesis. 2012 , 22, 25471	166
1356	A facile and versatile approach to biocompatible "fluorescent polymers" from polymerizable carbon nanodots. 2012 , 48, 10431-3	110
1355	CVD graphene as interfacial layer to engineer the organic donor-acceptor heterojunction interface properties. 2012 , 4, 3134-40	27
1354	Photoconductive enhancement effects of graphene quantum dots on ZnO nanoparticle photodetectors. 2012 ,	6
1353	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. 2012 , 8, 630-46	335
1352	Carbon nanomaterials for advanced energy conversion and storage. 2012 , 8, 1130-66	1149
1351	Extraordinary physical properties of functionalized graphene. 2012 , 8, 2138-51	153
1350	Facile synthesis of graphitic carbon quantum dots with size tunability and uniformity using reverse micelles. 2012 , 48, 5256-8	191
1349	Control the size and surface chemistry of graphene for the rising fluorescent materials. 2012 , 48, 4527-39	356

1348	Graphene-quantum-dot assembled nanotubes: a new platform for efficient Raman enhancement. 2012 , 6, 2237-44		149
1347	Graphene-based transparent flexible electrodes for polymer solar cells. 2012 , 22, 24254		90
1346	Photo-Fenton reaction of graphene oxide: a new strategy to prepare graphene quantum dots for DNA cleavage. 2012 , 6, 6592-9		420
1345	A Facile Microwave Avenue to Electrochemiluminescent Two-Color Graphene Quantum Dots. 2012 , 22, 2971-2979		670
1344	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Up-Conversion Bioimaging Applications. 2012 , 22, 4732-4740		900
1343	Binary and ternary atomic layers built from carbon, boron, and nitrogen. <i>Advanced Materials</i> , 2012 , 24, 4878-95	24	197
1342	Optically tunable amino-functionalized graphene quantum dots. <i>Advanced Materials</i> , 2012 , 24, 5333-8	24	667
1341	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. 2012 , 6, 5102-10		1323
1340	Chemically tailoring graphene oxides into fluorescent nanosheets for Fe ³⁺ ion detection. 2012 , 50, 2147-2154		177
1339	Blue luminescent graphene quantum dots and graphene oxide prepared by tuning the carbonization degree of citric acid. 2012 , 50, 4738-4743		1265
1338	Simple and eco-friendly solvothermal synthesis of luminescent reduced graphene oxide small sheets. 2012 , 78, 170-173		13
1337	Organic-inorganic hybrid functional carbon dot gel glasses. <i>Advanced Materials</i> , 2012 , 24, 1716-21	24	260
1336	Size-Dependent Structural and Optical Characteristics of Glucose-Derived Graphene Quantum Dots. 2013 , 30, 523-531		136
1335	Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. 2013 , 7, 7207-12		152
1334	Graphitized carbon dots emitting strong green photoluminescence. 2013 , 1, 4902		61
1333	Organic nanomaterials for efficient bulk heterojunction solar cells. 2013 , 549-578		4
1332	Carbon nanoparticles as an interfacial layer between TiO ₂ -coated ZnO nanorod arrays and conjugated polymers for high-photocurrent hybrid solar cells. 2013 , 3, 16308		15
1331	Electrochemical immunosensor with graphene quantum dots and apoferritin-encapsulated Cu nanoparticles double-assisted signal amplification for detection of avian leukosis virus subgroup J. 2013 , 47, 171-7		97

1330	Direct production of graphene nanosheets for near infrared photoacoustic imaging. 2013 , 7, 8147-57	85
1329	Synthesis of strongly green-photoluminescent graphene quantum dots for drug carrier. 2013 , 112, 192-6	79
1328	Novel fluorescent carbonic nanomaterials for sensing and imaging. 2013 , 1, 042001	111
1327	Synthesis and photoluminescence of three-dimensional europium-complexed graphene macroassembly. 2013 , 1, 5772	24
1326	Stabilization of graphene quantum dots (GQDs) by encapsulation inside zeolitic imidazolate framework nanocrystals for photoluminescence tuning. 2013 , 5, 10556-61	97
1325	Superior Micro-Supercapacitors Based on Graphene Quantum Dots. 2013 , 23, 4111-4122	490
1324	Photovoltaic properties of graphene nanodisk-integrated polymer composites. 2013 , 55, 548-557	20
1323	The electron-transfer based interaction between transition metal ions and photoluminescent graphene quantum dots (GQDs): a platform for metal ion sensing. 2013 , 117, 152-7	94
1322	Highly luminescent S, N co-doped graphene quantum dots with broad visible absorption bands for visible light photocatalysts. 2013 , 5, 12272-7	838
1321	Multicolour light emission from chlorine-doped graphene quantum dots. 2013 , 1, 7308	129
1320	Single-particle spectroscopic measurements of fluorescent graphene quantum dots. 2013 , 7, 10654-61	116
1319	One-Pot Synthesis of Fluorescent Carbon Dots from Orange Waste Peels. 2013 , 52, 15673-15678	306
1318	Coal as an abundant source of graphene quantum dots. 2013 , 4, 2943	556
1317	Graphene quantum dots as the hole transport layer material for high-performance organic solar cells. 2013 , 15, 18973-8	99
1316	Graphene quantum dots from a facile sono-Fenton reaction and its hybrid with a polythiophene graft copolymer toward photovoltaic application. 2013 , 5, 12672-80	79
1315	Hair fiber as a precursor for synthesizing of sulfur- and nitrogen-co-doped carbon dots with tunable luminescence properties. 2013 , 64, 424-434	601
1314	Carbon quantum dots-doped CdS microspheres with enhanced photocatalytic performance. 2013 , 569, 102-110	78
1313	Nearly monodisperse graphene quantum dots fabricated by amine-assisted cutting and ultrafiltration. 2013 , 5, 12098-103	57

1312	Graphene-based nanomaterials for nanobiotechnology and biomedical applications. 2013 , 8, 1669-88		86
1311	Carbon nanodots featuring efficient FRET for real-time monitoring of drug delivery and two-photon imaging. <i>Advanced Materials</i> , 2013 , 25, 6569-74	24	429
1310	Etching single-wall carbon nanotubes into green and yellow single-layer graphene quantum dots. 2013 , 64, 245-251		96
1309	Graphene-based nanocomposites: preparation, functionalization, and energy and environmental applications. 2013 , 6, 3483		422
1308	Using graphene quantum dots as photoluminescent probes for protein kinase sensing. 2013 , 85, 9148-55		148
1307	Reduced state carbon dots as both reductant and stabilizer for the synthesis of gold nanoparticles. 2013 , 64, 499-506		79
1306	Near-infrared light controlled photocatalytic activity of carbon quantum dots for highly selective oxidation reaction. 2013 , 5, 3289-97		247
1305	Photoluminescence enhancement of carbon dots by gold nanoparticles conjugated via PAMAM dendrimers. 2013 , 5, 11200-6		43
1304	All carbon-based photodetectors: an eminent integration of graphite quantum dots and two dimensional graphene. 2013 , 3, 2694		78
1303	Eco-friendly synthesis of size-controllable amine-functionalized graphene quantum dots with antimycoplasma properties. 2013 , 5, 1137-42		162
1302	Focusing on luminescent graphene quantum dots: current status and future perspectives. 2013 , 5, 4015-39		1120
1301	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. 2013 , 7, 1239-45		624
1300	Graphene oxide based fluorescent nanocomposites for cellular imaging. 2013 , 1, 512-521		88
1299	Hidden Properties of Carbon Dots Revealed After HPLC Fractionation. 2013 , 4, 239-43		96
1298	Dimension-tailored functional graphene structures for energy conversion and storage. 2013 , 5, 3112-26		86
1297	Graphene/polymer composites for energy applications. 2013 , 51, 231-253		199
1296	A two-photon ratiometric fluorescence probe for cupric ions in live cells and tissues. 2013 , 3, 2933		49
1295	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. 2013 , 63, 45-53		17

1294	Electrochemical approaches to the production of graphene flakes and their potential applications. 2013 , 54, 1-21		253
1293	Graphitic carbon quantum dots as a fluorescent sensing platform for highly efficient detection of Fe ³⁺ ions. 2013 , 3, 3733		216
1292	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. 2013 , 93, 161-164		57
1291	Graphene quantum dots combined with europium ions as photoluminescent probes for phosphate sensing. 2013 , 19, 3822-6		144
1290	Electrophoretic fabrication of highly robust, efficient, and benign heterojunction photoelectrocatalysts based on graphene-quantum-dot sensitized TiO ₂ nanotube arrays. 2013 , 1, 3551		115
1289	Quantum dots for fluorescent biosensing and bio-imaging applications. 2013 , 138, 2506-15		285
1288	Graphene-Based Nanomaterials: Synthesis, Properties, and Optical and Optoelectronic Applications. 2013 , 23, 1984-1997		212
1287	Glutathione-functionalized graphene quantum dots as selective fluorescent probes for phosphate-containing metabolites. 2013 , 5, 1810-5		153
1286	All-graphene core-sheath microfibers for all-solid-state, stretchable fibriform supercapacitors and wearable electronic textiles. <i>Advanced Materials</i> , 2013 , 25, 2326-31	24	912
1285	Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite. 2013 , 1, 6658		32
1284	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. <i>Advanced Materials</i> , 2013 , 25, 591-5	24	676
1283	One-step preparation of nitrogen-doped graphene quantum dots from oxidized debris of graphene oxide. 2013 , 1, 39-42		340
1282	Graphene quantum dot hybrids as efficient metal-free electrocatalyst for the oxygen reduction reaction. 2013 , 5, 3362-9		110
1281	Graphene quantum dots-carbon nanotube hybrid arrays for supercapacitors. 2013 , 24, 195401		79
1280	ZnO/carbon quantum dots heterostructure with enhanced photocatalytic properties. 2013 , 279, 367-373		145
1279	Unraveling Bright Molecule-Like State and Dark Intrinsic State in Green-Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. 2013 , 1, 264-271		122
1278	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. 2013 , 5, 6053-62		237
1277	One stone, two birds: Gastrodia elata-derived heteroatom-doped carbon materials for efficient oxygen reduction electrocatalyst and as fluorescent decorative materials. 2013 , 2, 1261-1270		47

1276	Electron-tunneling modulation in percolating network of graphene quantum dots: fabrication, phenomenological understanding, and humidity/pressure sensing applications. 2013 , 13, 1757-63	114
1275	Large scale preparation of graphene quantum dots from graphite with tunable fluorescence properties. 2013 , 15, 9907-13	216
1274	Fabrication of highly fluorescent graphene quantum dots using L-glutamic acid for / imaging and sensing. 2013 , 1, 4676-4684	319
1273	Graphene-based materials for hydrogen generation from light-driven water splitting. <i>Advanced Materials</i> , 2013 , 25, 3820-39	24 608
1272	Progress in the electrochemical modification of graphene-based materials and their applications. 2013 , 107, 425-440	96
1271	Aryl-modified graphene quantum dots with enhanced photoluminescence and improved pH tolerance. 2013 , 5, 7361-7	80
1270	Graphene quantum dots-incorporated cathode buffer for improvement of inverted polymer solar cells. 2013 , 117, 214-218	59
1269	Graphene for Transparent Electrodes and Organic Electronic Devices. 2013 , 81-102	
1268	Oxygen Reduction Catalyzed by Platinum Nanoparticles Supported on Graphene Quantum Dots. 2013 , 3, 831-838	164
1267	Solution-processable graphene quantum dots. 2013 , 14, 2627-40	29
1266	Nano-opto-electronics for biomedicine. 2013 , 58, 2521-2529	5
1265	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. 2013 , 125, 7954-7958	145
1264	Carbon-based dots co-doped with nitrogen and sulfur for high quantum yield and excitation-independent emission. 2013 , 52, 7800-4	1562
1263	Facile synthetic method for pristine graphene quantum dots and graphene oxide quantum dots: origin of blue and green luminescence. <i>Advanced Materials</i> , 2013 , 25, 3657-62	24 480
1262	Spontaneous reduction and assembly of graphene oxide into three-dimensional graphene network on arbitrary conductive substrates. 2013 , 3, 2065	140
1261	Optical control of magnetization and spin blockade in graphene quantum dots. 2013 , 87,	20
1260	Recent advances in graphene quantum dots for sensing. 2013 , 16, 433-442	552
1259	Graphene Quantum Dots from Polycyclic Aromatic Hydrocarbon for Bioimaging and Sensing of Fe ³⁺ and Hydrogen Peroxide. 2013 , 30, 1086-1092	119

1258	Photoluminescence properties of graphene versus other carbon nanomaterials. 2013 , 46, 171-80	623
1257	A photoelectrochemical investigation on the synergetic effect between CdS and reduced graphene oxide for solar-energy conversion. 2013 , 8, 2395-400	42
1256	Cysteamine hydrochloride protected carbon dots as a vehicle for the efficient release of the anti-schizophrenic drug haloperidol. 2013 , 3, 26290	33
1255	Titration Analysis of Electron Storage and Discharge Properties of Carbon Nanodots. 2013 , 42, 156-158	2
1254	Facile ionic-liquid-assisted electrochemical synthesis of size-controlled carbon quantum dots by tuning applied voltages. 2014 , 4, 57615-57619	27
1253	Metallic and Passive Components. 2014 , 63-110	
1252	From highly graphitic to amorphous carbon dots: A critical review. 2014 , 1, 1	33
1251	Facile synthesis and photoluminescence mechanism of graphene quantum dots. 2014 , 116, 244306	30
1250	Graphene Quantum Dot-Based Organic Solar Cells. 2014 , 255-268	1
1249	Boronic acid functionalized N-doped carbon quantum dots as fluorescent probe for selective and sensitive glucose determination. 2014 , 1, 025708	24
1248	Graphene-palladium nanowires based electrochemical sensor using ZnFe ₂ O ₄ -graphene quantum dots as an effective peroxidase mimic. 2014 , 852, 181-8	39
1247	Efficient solution-processed small-molecule solar cells by insertion of graphene quantum dots. 2014 , 6, 15175-80	23
1246	Hydrothermal Preparation of Photoluminescent Graphene Quantum Dots Characterized Excitation-Independent Emission and its Application as a Bioimaging Reagent. 2014 , 31, 801-809	53
1245	Chlorine doped graphene quantum dots: Preparation, properties, and photovoltaic detectors. 2014 , 105, 111116	51
1244	Elucidating the endocytosis, intracellular trafficking, and exocytosis of carbon dots in neural cells. 2014 ,	20
1243	Blue Luminescent Graphene Quantum Dots by Photochemical Stitching of Small Aromatic Molecules: Fluorescent Nanoprobes in Cellular Imaging. 2014 , 31, 433-438	52
1242	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. 2014 , 24, 2689-2695	171
1241	Simple and green synthesis of nitrogen-, sulfur-, and phosphorus-co-doped carbon dots with tunable luminescence properties and sensing application. 2014 , 4, 54060-54065	126

1240	An approach to controlling the fluorescence of graphene quantum dots: From surface oxidation to fluorescent mechanism. 2014 , 23, 128103	12
1239	Simple and Eco-Friendly Hydrothermal Synthesis of Luminescent Carbon Nanoparticles for H ₂ O ₂ Detection. 2014 , 997, 791-794	
1238	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. 2014 , 1, 277-292	249
1237	A dually spontaneous reduction and assembly strategy for hybrid capsules of graphene quantum dots with platinum-copper nanoparticles for enhanced oxygen reduction reaction. 2014 , 74, 170-179	20
1236	Graphene quantum dots and the resonance light scattering technique for trace analysis of phenol in different water samples. 2014 , 125, 341-6	37
1235	Photodynamic antibacterial effect of graphene quantum dots. 2014 , 35, 4428-35	276
1234	Turn-on fluorescent detection of cyanide based on polyamine-functionalized carbon quantum dots. 2014 , 4, 3685-3689	18
1233	A time-dependent DFT study of the absorption and fluorescence properties of graphene quantum dots. 2014 , 15, 950-7	69
1232	Controllable synthesis of doped graphene and its applications. 2014 , 10, 2975-91	46
1231	Graphene Quantum Dots. 2014 , 31, 415-428	616
1230	Facile synthesis of soluble graphene quantum dots and its improved property in detecting heavy metal ions. 2014 , 118, 72-6	45
1229	Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe ³⁺ Sensing. 2014 , 24, 3021-3026	377
1228	Mass production of graphene quantum dots by one-pot synthesis directly from graphite in high yield. 2014 , 10, 866-70	97
1227	Tuning photoluminescence of reduced graphene oxide quantum dots from blue to purple. 2014 , 115, 164307	34
1226	Fluorescent graphene quantum dot nanoprobe for the sensitive and selective detection of mercury ions. 2014 , 131, 384-7	94
1225	Plasmon-phonon coupling in large-area graphene dot and antidot arrays fabricated by nanosphere lithography. 2014 , 14, 2907-13	96
1224	Size-controllable and low-cost fabrication of graphene quantum dots using thermal plasma jet. 2014 , 8, 4190-6	83
1223	Synthesis, characterization and sensing properties of ZnO-modified BN@B ₄ C. 2014 , 600, 130-136	3

1222	Graphene synthesis and application for solar cells. 2014 , 29, 299-319	58
1221	Efficient plasmonic dye-sensitized solar cells with fluorescent Au-encapsulated C-dots. 2014 , 15, 1106-15	10
1220	Surrounding media sensitive photoluminescence of boron-doped graphene quantum dots for highly fluorescent dyed crystals, chemical sensing and bioimaging. 2014 , 70, 149-156	194
1219	Nitrogen-doped carbon nanodots as a reducing agent to synthesize Ag nanoparticles for non-enzymatic hydrogen peroxide detection. 2014 , 4, 544-548	16
1218	Graphene quantum dots as a fluorescent sensing platform for highly efficient detection of copper(II) ions. 2014 , 190, 516-522	258
1217	Cesium carbonate functionalized graphene quantum dots as stable electron-selective layer for improvement of inverted polymer solar cells. 2014 , 6, 1092-9	70
1216	Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. 2014 , 66, 334-339	108
1215	Graphene oxide derivatives as hole- and electron-extraction layers for high-performance polymer solar cells. 2014 , 7, 1297-1306	163
1214	Carbon dots in magnetic colloidal nanocrystal clusters. 2014 , 4, 58758-58761	3
1213	Microwave-assisted solvothermal preparation of nitrogen and sulfur co-doped reduced graphene oxide and graphene quantum dots hybrids for highly efficient oxygen reduction. 2014 , 2, 20605-20611	66
1212	N-doped graphene quantum dots-functionalized titanium dioxide nanofibers and their highly efficient photocurrent response. 2014 , 29, 1408-1416	18
1211	Printable temperature-responsive hybrid hydrogels with photoluminescent carbon nanodots. 2014 , 25, 055603	23
1210	Fluorescence spectroscopy of graphene quantum dots: temperature effect at different excitation wavelengths. 2014 , 25, 435703	28
1209	Azobenzene dendronized carbon nanoparticles: the effect of light antenna. 2014 , 4, 18193-18197	5
1208	A simple one-pot synthesis of highly fluorescent nitrogen-doped graphene quantum dots for the detection of Cr(VI) in aqueous media. 2014 , 4, 52016-52022	93
1207	Green and size-controllable synthesis of photoluminescent carbon nanoparticles from waste plastic bags. 2014 , 4, 47169-47176	29
1206	High-performance organic nano-floating-gate memory devices based on graphite nanocrystals as charge-trapping elements and high-k Ta2O5 as a controlled gate dielectric. 2014 , 2, 5342	15
1205	Low-cost synthesis of carbon nanodots from natural products used as a fluorescent probe for the detection of ferrum(III) ions in lake water. 2014 , 6, 2086	93

1204	Transient nature of graphene quantum dot formation via a hydrothermal reaction. 2014 , 4, 55709-55715	71
1203	Gram-scale synthesis of single-crystalline graphene quantum dots with superior optical properties. 2014 , 5, 5357	589
1202	Bioimaging based on fluorescent carbon dots. 2014 , 4, 27184	291
1201	Enhancing the Fluorescence of Graphene Quantum Dots with a Oxidation Way. 2014 , 887-888, 156-160	4
1200	Direct synthesis of graphene quantum dots on hexagonal boron nitride substrate. 2014 , 2, 3717-3722	19
1199	High-yield synthesis of graphene quantum dots with strong green photoluminescence. 2014 , 4, 50141-50144	76
1198	Facile synthesis and photoluminescence of graphene oxide quantum dots and their reduction products. 2014 , 38, 4970-4974	33
1197	Ultra-bright alkylated graphene quantum dots. 2014 , 6, 12635-43	21
1196	Fractals of graphene quantum dots in photoluminescence of shungite. 2014 , 118, 735-746	19
1195	Electrochemiluminescence resonance energy transfer between graphene quantum dots and gold nanoparticles for DNA damage detection. 2014 , 139, 2404-10	89
1194	Facile synthesis of analogous graphene quantum dots with sp ² hybridized carbon atom dominant structures and their photovoltaic application. 2014 , 6, 13043-52	66
1193	Aqueous self-assembly and surface-functionalized nanodots for live cell imaging and labeling. 2014 , 7, 1164-1176	9
1192	Synthesis and optical properties of nitrogen and sulfur co-doped graphene quantum dots. 2014 , 38, 4615-4621	114
1191	Highly Luminescent Carbon-Nanoparticle-Based Materials: Factors Influencing Photoluminescence Quantum Yield. 2014 , 31, 1175-1182	39
1190	Decoration of graphene network with metal-organic frameworks for enhanced electrochemical capacitive behavior. 2014 , 78, 231-242	103
1189	Nanoporous graphene by quantum dots removal from graphene and its conversion to a potential oxygen reduction electrocatalyst via nitrogen doping. 2014 , 7, 1059	140
1188	Graphene quantum-dot-supported platinum nanoparticles: defect-mediated electrocatalytic activity in oxygen reduction. 2014 , 6, 14050-60	67
1187	One-pot green synthesis of water-soluble carbon nanodots with multicolor photoluminescence from polyethylene glycol. 2014 , 2, 3937-3945	62

- 1186 Facile method to sort graphene quantum dots by size through ammonium sulfate addition. **2014**, 4, 56848-56852
- 1185 Simultaneously enhancing up-conversion fluorescence and red-shifting down-conversion luminescence of carbon dots by a simple hydrothermal process. **2014**, 2, 6947-6952 34
- 1184 A green one-arrow-two-hawks strategy for nitrogen-doped carbon dots as fluorescent ink and oxygen reduction electrocatalysts. **2014**, 2, 6320 118
- 1183 Regulation of photoluminescence properties of graphene quantum dots via hydrothermal treatment. **2014**, 16, 19011-6 43
- 1182 Graphene quantum dots-three-dimensional graphene composites for high-performance supercapacitors. **2014**, 16, 19307-13 135
- 1181 Organosilane-functionalized graphene quantum dots and their encapsulation into bi-layer hollow silica spheres for bioimaging applications. **2014**, 16, 23188-95 45
- 1180 Green synthesis of nitrogen-doped carbon dots from konjac flour with "off-on" fluorescence by Fe and l-lysine for bioimaging. **2014**, 2, 4631-4639 206
- 1179 C8-structured carbon quantum dots: Synthesis, blue and green double luminescence, and origins of surface defects. **2014**, 79, 165-173 53
- 1178 Revealing the tunable photoluminescence properties of graphene quantum dots. **2014**, 2, 6954-6960 398
- 1177 Dual-peak electrogenerated chemiluminescence of carbon dots for iron ions detection. **2014**, 86, 5620-3 75
- 1176 Highly Luminescent Polymer Particles Driven by Thermally Reduced Graphene Quantum Dot Surfactants. **2014**, 3, 985-990 36
- 1175 Optically and electrically tunable graphene quantum dot/polyaniline composite films. **2014**, 2, 4526-4532 51
- 1174 Highly photoluminescent carbon dots-based fluorescent chemosensors for sensitive and selective detection of mercury ions and application of imaging in living cells. **2014**, 192, 488-495 230
- 1173 Graphene quantum dots, graphene oxide, carbon quantum dots and graphite nanocrystals in coals. **2014**, 6, 7410-5 170
- 1172 Single-particle fluorescence intensity fluctuations of carbon nanodots. **2014**, 14, 620-5 155
- 1171 Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. **2014**, 2, 983-989 59
- 1170 Graphene in photovoltaic applications: organic photovoltaic cells (OPVs) and dye-sensitized solar cells (DSSCs). **2014**, 2, 12136 89
- 1169 Graphene quantum dots optimization of dye-sensitized solar cells. **2014**, 137, 634-638 80

1168	Preparation and characterization of multi stimuli-responsive photoluminescent nanocomposites of graphene quantum dots with hyperbranched polyethylenimine derivatives. 2014 , 6, 7453-60	30
1167	Preparation of Doped Graphene Quantum Dots with Bright and Excitation-Independent Blue Fluorescence. 2014 , 950, 44-47	5
1166	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. 2014 , 2, 1016-1023	199
1165	Facile synthesis and optical properties of nitrogen-doped carbon dots. 2014 , 38, 1522	70
1164	A facile large-scale microwave synthesis of highly fluorescent carbon dots from benzenediol isomers. 2014 , 2, 5028-5035	63
1163	Crystalline Si/Graphene Quantum Dots Heterojunction Solar Cells. 2014 , 118, 5164-5171	102
1162	Efficiency enhancement of perovskite solar cells through fast electron extraction: the role of graphene quantum dots. 2014 , 136, 3760-3	590
1161	Fabrication of graphene quantum dots/silicon nanowires nanohybrids for photoelectrochemical detection of microcystin-LR. 2014 , 196, 532-538	43
1160	Chemiluminescence of graphene quantum dots and its application to the determination of uric acid. 2014 , 153, 73-78	82
1159	Graphene oxide-integrated high-temperature durable fluoroelastomer for petroleum oil sealing. 2014 , 92, 126-133	42
1158	Formation mechanism and optimization of highly luminescent N-doped graphene quantum dots. 2014 , 4, 5294	639
1157	An electrolyte-free flexible electrochromic device using electrostatically strong graphene quantum dot-viologen nanocomposites. <i>Advanced Materials</i> , 2014 , 26, 5129-36	24 81
1156	Boron-doped graphene quantum dots for selective glucose sensing based on the "abnormal" aggregation-induced photoluminescence enhancement. 2014 , 86, 4423-30	281
1155	Three-dimensional multichannel aerogel of carbon quantum dots for high-performance supercapacitors. 2014 , 25, 235401	59
1154	Two-dimensional carbon leading to new photoconversion processes. 2014 , 43, 4281-99	184
1153	Science and Engineering of Graphene Oxide. 2014 , 31, 619-638	29
1152	Waste frying oil as a precursor for one-step synthesis of sulfur-doped carbon dots with pH-sensitive photoluminescence. 2014 , 77, 775-782	249
1151	One-pot synthesis of N-doped graphene quantum dots as a fluorescent sensing platform for Fe ³⁺ ions detection. 2014 , 202, 568-573	136

1150	Graphene quantum dots as fluorescence probes for turn-off sensing of melamine in the presence of Hg(2+). 2014 , 6, 2858-64	106
1149	Novel electrochemical sensor based on graphene quantum dots/riboflavin nanocomposite for the detection of persulfate. 2014 , 201, 503-510	80
1148	Shaping graphene oxide by electrochemistry: From foams to self-assembled molecular materials. 2014 , 77, 405-415	26
1147	Characterization of PbS/PVA/GQDs nanocomposite prepared by chemical bath deposition method. 2014 , 68, 10403	1
1146	Optical properties of the composite film from P3HT and hydrothermally synthesized porous carbon nanospheres. 2015 , 30, 1599-1610	1
1145	Conjugated-Polymer/Quantum-Confined Nanomaterials-Based Hybrids for Optoelectronic Applications. 2015 , 163-227	3
1144	Single Particle Dynamic Imaging and Fe ³⁺ Sensing with Bright Carbon Dots Derived from Bovine Serum Albumin Proteins. 2015 , 5, 17727	70
1143	New Nanoscale Material: Graphene Quantum Dots. 2015 , 141-194	3
1142	Surface-Engineered Graphene Quantum Dots Incorporated into Polymer Layers for High Performance Organic Photovoltaics. 2015 , 5, 14276	48
1141	One-pot Hydrothermal Synthesis of N-Doped Carbon Quantum Dots Using the Waste of Shrimp for Hydrogen Evolution from Formic Acid. 2015 , 44, 241-243	18
1140	The emission wavelength dependent photoluminescence lifetime of the N-doped graphene quantum dots. 2015 , 107, 241905	29
1139	Graphene Quantum Dots Assembled with Metalloporphyrins for "Turn on" Sensing of Hydrogen Peroxide and Glucose. 2015 , 21, 9343-8	45
1138	Functionalization of Carbonaceous Nanodots from Mn(II) -Coordinating Functional Knots. 2015 , 21, 14843-50	33
1137	Tunable Fabrication of Molybdenum Disulfide Quantum Dots for Intracellular MicroRNA Detection and Multiphoton Bioimaging. 2015 , 11, 4158-64	148
1136	Graphene Quantum Dots Doping of MoS ₂ Monolayers. <i>Advanced Materials</i> , 2015 , 27, 5235-40	24 135
1135	In-Situ Carbon Doping of TiO ₂ Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO _x C _y Nanotubes. 2015 , 2, 1400462	20
1134	Rupturing C ₆₀ Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. 2015 , 11, 5296-304	33
1133	Capillary column coated with graphene quantum dots for gas chromatographic separation of alkanes and aromatic isomers. 2015 , 7, 3229-3237	23

1132	Facile access to B-doped solid-state fluorescent carbon dots toward light emitting devices and cell imaging agents. 2015 , 3, 6668-6675	84
1131	Surface engineering of graphene quantum dots and their applications as efficient surfactants. 2015 , 7, 8615-21	59
1130	The synergistic role of carbon quantum dots for the improved photocatalytic performance of Bi ₂ MoO ₆ . 2015 , 7, 11433-43	251
1129	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. 2015 , 115, 4744-822	1137
1128	One-pot synthesis of graphene oxide sheets and graphene oxide quantum dots from graphite nanofibers. 2015 , 17, 1	8
1127	Graphene Nanocomposites in Optoelectronics. 2015 , 131-156	0
1126	Gram-Scale Synthesis of Graphene Quantum Dots from Single Carbon Atoms Growth via Energetic Material Deflagration. 2015 , 27, 4319-4327	46
1125	Carbon Dots: From Intense Absorption in Visible Range to Excitation-Independent and Excitation-Dependent Photoluminescence. 2015 , 23, 922-929	28
1124	Electrochemical tuning of optical properties of graphitic quantum dots. 2015 , 166, 322-327	4
1123	Structure observation of graphene quantum dots by single-layered formation in layered confinement space. 2015 , 6, 4846-4850	78
1122	Multicolor fluorescent graphene quantum dots colorimetrically responsive to all-pH and a wide temperature range. 2015 , 7, 11727-33	147
1121	Performance of graphene sheets as stationary phase for capillary gas chromatographic separations. 2015 , 1399, 74-9	32
1120	Multiple doping of graphene oxide foams and quantum dots: new switchable systems for oxygen reduction and water remediation. 2015 , 3, 14334-14347	51
1119	Large-Scale Green Synthesis of Fluorescent Carbon Nanodots and Their Use in Optics Applications. 2015 , 3, 103-111	74
1118	Black Phosphorus Quantum Dots. 2015 , 127, 3724-3728	73
1117	Synthesis of N, F and S co-doped graphene quantum dots. 2015 , 7, 11515-9	129
1116	Functionalized graphene and other two-dimensional materials for photovoltaic devices: device design and processing. 2015 , 44, 5638-79	238
1115	Graphene, graphene quantum dots and their applications in optoelectronics. 2015 , 20, 439-453	49

1114	Luminescent Polymer Composite Films Containing Coal-Derived Graphene Quantum Dots. 2015 , 7, 26063-8	66
1113	Electro-optical switching of liquid crystals sandwiched between ion-beam-sputtered graphene quantum dots-doped PEDOT:PSS composite layers. 2015 , 23, 34071-81	21
1112	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. 2015 , 7, 19043-9	41
1111	Synthesis of highly luminescent fluorinated graphene quantum dots with tunable fluorine coverage and size. 2015 , 143, 112-115	15
1110	Graphene quantum dots combined with endonuclease cleavage and bidentate chelation for highly sensitive electrochemiluminescent DNA biosensing. 2015 , 87, 1145-51	58
1109	Sulfur-doped graphitic carbon nitride decorated with graphene quantum dots for an efficient metal-free electrocatalyst. 2015 , 3, 1841-1846	183
1108	Monoatomic-thick graphitic carbon nitride dots on graphene sheets as an efficient catalyst in the oxygen reduction reaction. 2015 , 7, 3035-42	74
1107	Electronic and Optical Properties of Graphene Quantum Dots: The Role of Many-Body Effects. 2015 , 119, 4983-4989	65
1106	Electrospinning graphene quantum dots into a nanofibrous membrane for dual-purpose fluorescent and electrochemical biosensors. 2015 , 3, 2487-2496	165
1105	Modulation of electrochemical property of carbon nanodot by post-chemical reductions. 2015 , 470, 15-21	3
1104	Recent advances in the fabrication and structure-specific applications of graphene-based inorganic hybrid membranes. 2015 , 7, 5080-93	103
1103	Highly luminescent nitrogen-doped carbon quantum dots as effective fluorescent probes for mercuric and iodide ions. 2015 , 3, 1922-1928	144
1102	Controllable and mass fabrication of highly luminescent N-doped carbon dots for bioimaging applications. 2015 , 5, 22343-22349	11
1101	A ratiometric fluorescent nanoprobe based on terbium functionalized carbon dots for highly sensitive detection of an anthrax biomarker. 2015 , 51, 5036-9	160
1100	Versatile photoluminescence from graphene and its derivatives. 2015 , 88, 86-112	64
1099	Luminescent properties of a water-soluble conjugated polymer incorporating graphene-oxide quantum dots. 2015 , 16, 1258-62	18
1098	Generation of graphene quantum dots by the oxidative cleavage of graphene oxide using the oxone oxidant. 2015 , 39, 2425-2428	30
1097	Fluorescent graphene quantum dots for biosensing and bioimaging. 2015 , 5, 19773-19789	171

1096	Solution-processed graphene quantum dot deep-UV photodetectors. 2015 , 9, 1561-70	206
1095	Starch (Tapioca) to carbon dots: an efficient green approach to an on-off-on photoluminescence probe for fluoride ion sensing. 2015 , 140, 1837-41	57
1094	Simple and sensitive fluorescent and electrochemical trinitrotoluene sensors based on aqueous carbon dots. 2015 , 87, 2033-6	130
1093	Graphene for Detection of Adenosine Triphosphate, Nicotinamide Adenine Dinucleotide, Other Molecules, Gas, and Ions. 2015 , 81-102	
1092	Black phosphorus quantum dots. 2015 , 54, 3653-7	491
1091	Electrochemical synthesis of small-sized red fluorescent graphene quantum dots as a bioimaging platform. 2015 , 51, 2544-6	236
1090	A new chemosensor for Ga ³⁺ detection by fluorescent nitrogen-doped graphitic carbon dots. 2015 , 5, 13036-13041	20
1089	Photoluminescence-tunable carbon nanodots: surface-state energy-gap tuning. <i>Advanced Materials</i> , 2015 , 27, 1663-7	24 528
1088	The photoluminescence mechanism in carbon dots (graphene quantum dots, carbon nanodots, and polymer dots): current state and future perspective. 2015 , 8, 355-381	1623
1087	Graphene quantum dots directly generated from graphite via magnetron sputtering and the application in thin-film transistors. 2015 , 88, 225-232	23
1086	Acid-free and oxone oxidant-assisted solvothermal synthesis of graphene quantum dots using various natural carbon materials as resources. 2015 , 7, 5633-7	64
1085	Highly luminescent flexible amino-functionalized graphene quantum dots@cellulose nanofiber@clay hybrids for white-light emitting diodes. 2015 , 3, 3536-3541	77
1084	Nonvolatile memory devices based on carbon nano-dot doped poly(vinyl alcohol) composites with low operation voltage and high ON/OFF ratio. 2015 , 5, 26886-26890	13
1083	Synthesis of strongly fluorescent graphene quantum dots by cage-opening buckminsterfullerene. 2015 , 9, 2548-55	200
1082	Characteristics of graphene quantum dots determined by edge structures: three kinds of dots fabricated using thermal plasma jet. 2015 , 5, 67669-67675	10
1081	Low-Temperature Hydrothermal Synthesis of Green Luminescent Carbon Quantum Dots (CQD), and Optical Properties of Blends of the CQD with Poly(3-hexylthiophene). 2015 , 44, 3436-3443	25
1080	Green preparation of fluorescent carbon dots from lychee seeds and their application for the selective detection of methylene blue and imaging in living cells. 2015 , 3, 6783-6789	99
1079	Graphene quantum dots decorated electrospun TiO ₂ nanofibers as an effective photoanode for dye sensitized solar cells. 2015 , 143, 250-259	77

1078	Low temperature synthesis of phosphorous and nitrogen co-doped yellow fluorescent carbon dots for sensing and bioimaging. 2015 , 3, 6813-6819	118
1077	A new mild, clean and highly efficient method for the preparation of graphene quantum dots without by-products. 2015 , 3, 6871-6876	94
1076	Multi-positively charged dendrimeric nanoparticles induced fluorescence quenching of graphene quantum dots for heparin and chondroitin sulfate detection. 2015 , 74, 284-90	42
1075	Sensitive determination of kaempferol using carbon dots as a fluorescence probe. 2015 , 144, 390-7	17
1074	Graphene quantum dots in analytical science. 2015 , 72, 93-113	157
1073	Preparation of fluorescent graphene quantum dots from humic acid for bioimaging application. 2015 , 39, 7054-7059	57
1072	Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. 2015 , 5, 11032	46
1071	Supramolecular quantum dots as biodegradable nano-probes for upconversion-enabled bioimaging. 2015 , 51, 13201-4	23
1070	Recent advances in the synthesis and applications of graphene-polymer nanocomposites. 2015 , 6, 6107-6124	202
1069	Nanoparticle based fluorescence resonance energy transfer (FRET) for biosensing applications. 2015 , 3, 6989-7005	156
1068	Spectroscopic Investigation of Interaction Between Carbon Quantum Dots and D-Penicillamine Capped Gold Nanoparticles. 2015 , 25, 1085-93	9
1067	Innovative approach for the electrochemical detection of non-electroactive organophosphorus pesticides using oxime as electroactive probe. 2015 , 885, 92-7	42
1066	Near-UV-emitting graphene quantum dots from graphene hydrogels. 2015 , 94, 181-188	28
1065	Photoluminescent carbon dots synthesized by microwave treatment for selective image of cancer cells. 2015 , 456, 1-6	57
1064	Improving photocatalytic performance of ZnO via synergistic effects of Ag nanoparticles and graphene quantum dots. 2015 , 17, 18645-52	55
1063	A unique turn-off fluorescent strategy for sensing dopamine based on formed polydopamine (pDA) using graphene quantum dots (GQDs) as fluorescent probe. 2015 , 221, 7-14	75
1062	Coherent and Incoherent Contributions to Charge Separation in Multichromophore Systems. 2015 , 119, 7590-7603	17
1061	Graphene quantum dots enhanced photocatalytic activity of zinc porphyrin toward the degradation of methylene blue under visible-light irradiation. 2015 , 3, 8552-8558	119

1060	Controllable size-selective method to prepare graphene quantum dots from graphene oxide. 2015 , 10, 55	103
1059	Integrative Self-assembly of Graphene Quantum Dot and Biopolymer into a Versatile Biosensing Toolkit. 2015 , 25, 3183-3192	52
1058	Oxidative unzipping of stacked nitrogen-doped carbon nanotube cups. 2015 , 7, 10734-41	9
1057	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. 2015 , 119, 13369-13373	74
1056	Graphene Filled Polymers in Photovoltaic. 2015 , 157-191	
1055	Enhanced photoluminescence of pyrrolic-nitrogen enriched graphene quantum dots. 2015 , 5, 43750-43755	42
1054	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. 2015 , 7, 8159-65	149
1053	Nitrogen and sulfur co-doped carbon dots: A facile and green fluorescence probe for free chlorine. 2015 , 219, 50-56	93
1052	Investigating the surface state of graphene quantum dots. 2015 , 7, 7927-33	159
1051	Synthesis and photochemical applications of processable polymers enclosing photoluminescent carbon quantum dots. 2015 , 9, 4156-64	112
1050	Can graphene quantum dots cause DNA damage in cells?. 2015 , 7, 9894-901	88
1049	Metal-free catalysts for oxygen reduction reaction. 2015 , 115, 4823-92	1763
1048	Few-layered graphene quantum dots as efficient hole-extraction layer for high-performance polymer solar cells. 2015 , 15, 186-192	92
1047	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. 2015 , 11, 3773-81	44
1046	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. 2015 , 7, 10162-9	85
1045	Large scale preparation of graphene quantum dots from graphite oxide in pure water via one-step electrochemical tailoring. 2015 , 5, 29704-29707	44
1044	Nanocarbon materials: Physicochemical and exploitation properties, synthesis methods, and energetic applications. 2015 , 53, 130-150	12
1043	Photoluminescent graphene quantum dots for in vitro and in vivo bioimaging using long wavelength emission. 2015 , 5, 39399-39403	39

1042	Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. 2015 , 87, 10385-91	98
1041	Fluorescent determination of graphene quantum dots in water samples. 2015 , 896, 78-84	17
1040	High quantum-yield luminescent MoS ₂ quantum dots with variable light emission created via direct ultrasonic exfoliation of MoS ₂ nanosheets. 2015 , 5, 95178-95182	47
1039	Graphene Quantum Dots-Supported Palladium Nanoparticles for Efficient Electrocatalytic Reduction of Oxygen in Alkaline Media. 2015 , 3, 3315-3323	58
1038	Graphene quantum dots assisted photovoltage and efficiency enhancement in CdSe quantum dot sensitized solar cells. 2015 , 24, 722-728	18
1037	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. 2015 , 9, 12480-7	211
1036	A CdTe/CdS quantum dots amplified graphene quantum dots anodic electrochemiluminescence platform and the application for ascorbic acid detection in fruits. 2015 , 178, 407-413	32
1035	A facile photoluminescence modulated nanosensor based on nitrogen-doped graphene quantum dots for sulfite detection. 2015 , 39, 8114-8120	37
1034	Electronic and Optical Properties of Edge-Functionalized Graphene Quantum Dots and the Underlying Mechanism. 2015 , 119, 24950-24957	94
1033	Cross-linked graphene membrane for high-performance organics separation of emulsions. 2015 , 495, 439-444	41
1032	Synthesis and optical properties of composite films from P3HT and sandwich-like Ag@Ag nanoparticles. 2015 , 5, 79860-79867	5
1031	Fluorescently tuned nitrogen-doped carbon dots from carbon source with different content of carboxyl groups. 2015 , 3, 086102	33
1030	Graphene Quantum Dots-based Photoluminescent Sensor: A Multifunctional Composite for Pesticide Detection. 2015 , 7, 20272-9	99
1029	A carbon dot-based fluorescence turn-on sensor for hydrogen peroxide with a photo-induced electron transfer mechanism. 2015 , 51, 15574-7	78
1028	Electrochemical study on the intercalation properties of hydroxyl anion for the reversible conversion of graphene quantum dots into carbon dots. 2015 , 756, 161-170	6
1027	N-Doped nanodots/np(+)-Si photocathodes for efficient photoelectrochemical hydrogen generation. 2015 , 51, 15340-3	18
1026	Optoelectronic and photovoltaic properties of graphene quantum dot/polyaniline nanostructures. 2015 , 3, 20736-20748	59
1025	Efficient Separation of Electron-Hole Pairs in Graphene Quantum Dots by TiO ₂ Heterojunctions for Dye Degradation. 2015 , 3, 2405-2413	199

1024	The up-converted photoluminescence and cell imaging of water-soluble carbon dots. 2015 , 638, 196-200	8
1023	Enhanced quantum-dot light-emitting diodes using gold nanorods. 2015 , 67, 1667-1671	4
1022	Gram-scale synthesis of high-purity graphene quantum dots with multicolor photoluminescence. 2015 , 5, 103428-103432	24
1021	Graphene quantum dots: In the crossroad of graphene, quantum dots and carbogenic nanoparticles. 2015 , 20, 354-361	28
1020	Photoinduced Electron Transfer from Various Aniline Derivatives to Graphene Quantum Dots. 2015 , 119, 11783-90	28
1019	Modification of Structural and Luminescence Properties of Graphene Quantum Dots by Gamma Irradiation and Their Application in a Photodynamic Therapy. 2015 , 7, 25865-74	78
1018	Carbon Dot-Incorporated PMO Nanoparticles as Versatile Platforms for the Design of Ratiometric Sensors, Multichannel Traceable Drug Delivery Vehicles, and Efficient Photocatalysts. 2015 , 3, 57-63	41
1017	Recent Advances in Graphene Quantum Dots for Fluorescence Bioimaging from Cells through Tissues to Animals. 2015 , 32, 515-523	86
1016	Application of paramagnetic graphene quantum dots as a platform for simultaneous dual-modality bioimaging and tumor-targeted drug delivery. 2015 , 3, 651-664	101
1015	Charge and energy transfer interplay in hybrid sensitized solar cells mediated by graphene quantum dots. 2015 , 153, 306-315	70
1014	Glowing graphene quantum dots and carbon dots: properties, syntheses, and biological applications. 2015 , 11, 1620-36	1415
1013	Novel visible-light-driven CQDs/Bi ₂ WO ₆ hybrid materials with enhanced photocatalytic activity toward organic pollutants degradation and mechanism insight. 2015 , 168-169, 51-61	410
1012	Carbon black-derived graphene quantum dots composited with carbon aerogel as a highly efficient and stable reduction catalyst for the iodide/tri-iodide couple. 2015 , 7, 1209-15	47
1011	Study on the molecular interaction of graphene quantum dots with human serum albumin: combined spectroscopic and electrochemical approaches. 2015 , 285, 18-26	87
1010	Recent development of graphene materials applied in polymer solar cell. 2015 , 43, 973-980	35
1009	To lose is to gain: Effective synthesis of water-soluble graphene fluoroxide quantum dots by sacrificing certain fluorine atoms from exfoliated fluorinated graphene. 2015 , 83, 152-161	39
1008	Recent advances in carbon nanodots: synthesis, properties and biomedical applications. 2015 , 7, 1586-95	357
1007	One-step ultrasonic synthesis of graphene quantum dots with high quantum yield and their application in sensing alkaline phosphatase. 2015 , 51, 948-51	102

1006	Pyrolytic synthesis of carbon quantum dots, and their photoluminescence properties. 2015 , 41, 813-819	17
1005	Structural evolution of graphene quantum dots during thermal decomposition of citric acid and the corresponding photoluminescence. 2015 , 82, 304-313	144
1004	Transgenerational safety of nitrogen-doped graphene quantum dots and the underlying cellular mechanism in <i>Caenorhabditis elegans</i> . 2015 , 4, 270-280	52
1003	Single and Multiple Doping in Graphene Quantum Dots: Unraveling the Origin of Selectivity in the Oxygen Reduction Reaction. 2015 , 5, 129-144	142
1002	Synthesis of polyethyleneimine capped carbon dots for preconcentration and slurry sampling analysis of trace chromium in environmental water samples. 2015 , 134, 16-23	51
1001	Squaraine-sensitized composite of a reduced graphene oxide/TiO ₂ photocatalyst: π -stacking as a new method of dye anchoring. 2015 , 3, 232-239	21
1000	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO ₂ nanoparticles. 2015 , 853, 258-264	122
999	Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg ²⁺ detection. 2015 , 437, 28-34	53
998	One- and two-photon luminescence in graphene oxide quantum dots. 2015 , 39, 98-101	24
997	Microwave bottom-up route for size-tunable and switchable photoluminescent graphene quantum dots using acetylacetone: New platform for enzyme-free detection of hydrogen peroxide. 2015 , 81, 514-524	74
996	Graphene quantum dots mediated charge transfer of CdSe nanocrystals for enhancing photoelectrochemical hydrogen production. 2015 , 164, 271-278	124
995	Tailored graphene systems for unconventional applications in energy conversion and storage devices. 2015 , 8, 31-54	211
994	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. 2015 , 7, 4598-810	2015
993	Tuning the Emission Energy of Chemically Doped Graphene Quantum Dots. 2016 , 6,	30
992	Particle Size-Dependent Antibacterial Activity and Murine Cell Cytotoxicity Induced by Graphene Oxide Nanomaterials. 2016 , 2016, 1-9	9
991	Graphene Quantum Dots: Syntheses, Properties, and Biological Applications. 2016 , 171-192	9
990	A Review of the Synthesis and Photoluminescence Properties of Hybrid ZnO and Carbon Nanomaterials. 2016 , 2016, 1-12	41
989	Preparation of Graphene Quantum Dots and Their Application in Cell Imaging. 2016 , 2016, 1-9	19

988	Graphene and Carbon Quantum Dot-Based Materials in Photovoltaic Devices: From Synthesis to Applications. 2016 , 6,	99
987	Carbon Nanodots as Peroxidase Nanozymes for Biosensing. 2016 , 21,	86
986	Making few-layer graphene photoluminescent by UV ozonation. 2016 , 6, 3527	7
985	Microwave-Assisted Preparation of White Fluorescent Graphene Quantum Dots as a Novel Phosphor for Enhanced White-Light-Emitting Diodes. 2016 , 26, 2739-2744	172
984	Successful Fabrication of GaN Epitaxial Layer on Non-Catalytically-grown Graphene. 2016 , 37, 1004-1009	4
983	Graphene-based materials for polymer solar cells. 2016 , 27, 1259-1270	29
982	Progress of Carbon Quantum Dots in Photocatalysis Applications. 2016 , 33, 457-472	121
981	Carbon Dots: Synthesis, Bioimaging, and Biosafety Assessment. 2016 , 429-486	3
980	Fabrication and Characterization of an Ammonia Gas Sensor Based on PEDOT-PSS With N-Doped Graphene Quantum Dots Dopant. 2016 , 16, 6149-6154	27
979	Supercritical Fluid Facilitated Disintegration of Hexagonal Boron Nitride Nanosheets to Quantum Dots and Its Application in Cells Imaging. 2016 , 8, 18647-51	44
978	Controlling armchair and zigzag edges in oxidative cutting of graphene. 2016 , 4, 6539-6545	5
977	Synthetic Developments of Nontoxic Quantum Dots. 2016 , 17, 598-617	64
976	Electrical-Polarization-Induced Ultrahigh Responsivity Photodetectors Based on Graphene and Graphene Quantum Dots. 2016 , 26, 620-628	74
975	Room temperature synthesis of manganese oxide quantum dots and their application as a fluorescent probe for the detection of metal ions in aqueous media. 2016 , 6, 114632-114638	4
974	Phenomenal Ultraviolet Photoresponsivity and Detectivity of Graphene Dots Immobilized on Zinc Oxide Nanorods. 2016 , 8, 35496-35504	47
973	Flexible Light-Emitting Nanocomposite Based on ZnO Nanotetrapods. 2016 , 16, 7389-7393	18
972	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. 2016 , 108, 061904	7
971	Electron injection from graphene quantum dots to poly(amido amine) dendrimers. 2016 , 108, 161904	2

970	Photon Reabsorption and Nonradiative Energy-Transfer-Induced Quenching of Blue Photoluminescence from Aggregated Graphene Quantum Dots. 2016 , 120, 29432-29438	39
969	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. 2016 , 6, 38423	34
968	Design and fabrication of graphene fibers based on intermolecular forces and charge properties in a novel acidic system. 2016 , 6, 100040-100045	3
967	Enhanced Conversion Efficiency of III-V Triple-junction Solar Cells with Graphene Quantum Dots. 2016 , 6, 39163	8
966	Graphene quantum dots derived from carbon fibers for oxidation of dopamine. 2016 , 31, 1294-1297	10
965	Bottom-Up Fabrication of Single-Layered Nitrogen-Doped Graphene Quantum Dots through Intermolecular Carbonization Arrayed in a 2D Plane. 2016 , 22, 272-8	46
964	Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots. 2016 , 48, 1	11
963	Fluorometric detection of tyrosine and cysteine using graphene quantum dots. 2016 , 6, 33197-33204	20
962	Silver Nanoparticles: Synthesis and Its Nanocomposites for Heterojunction Polymer Solar Cells. 2016 , 120, 8941-8949	22
961	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. 2016 , 3, 8	24
960	Photoluminescent Carbon Nanostructures. 2016 , 28, 4085-4128	150
959	Fabrication of dispersible graphene flakes using thermal plasma jet and their thin films for solar cells. 2016 , 106, 48-55	17
958	Enriching Photoelectrons via Three Transition Channels in Amino-Conjugated Carbon Quantum Dots to Boost Photocatalytic Hydrogen Generation. 2016 , 8, 14118-24	47
957	Graphene oxide derived graphene quantum dots with different photoluminescence properties and peroxidase-like catalytic activity. 2016 , 6, 50609-50617	56
956	The biogenic synthesis of a reduced graphene oxide/silver (RGO/Ag) nanocomposite and its dual applications as an antibacterial agent and cancer biomarker sensor. 2016 , 6, 36576-36587	85
955	Fluorescent carbon dots from milk by microwave cooking. 2016 , 6, 41516-41521	48
954	Nitrogen-rich functional groups carbon nanoparticles based fluorescent pH sensor with broad-range responding for environmental and live cells applications. 2016 , 82, 233-9	40
953	Graphene quantum dots and their possible energy applications: A review. 2016 , 16, 1192-1201	133

952	Amine-enriched Graphene Quantum Dots for High-pseudocapacitance Supercapacitors. 2016 , 208, 260-266	46
951	Graphene quantum dots as smart probes for biosensing. 2016 , 8, 4001-4016	91
950	Hybrid nanostructures combining graphene/MoS2 quantum dots for gas sensing. 2016 , 4, 8198-8203	67
949	Graphene aerogel-supported and graphene quantum dots-modified MnOOH nanotubes as a highly efficient electrocatalyst for oxygen reduction reaction. 2016 , 6, 43116-43126	19
948	Understanding the ammonia sensing behavior of filter coffee powder derived N-doped carbon nanoparticles using the Freundlich-like isotherm. 2016 , 4, 8860-8865	17
947	Graphene quantum dot soil moisture sensor. 2016 , 233, 582-590	41
946	A fluorometric assay platform for caffeic acid detection based on the G-quadruplex/hemin DNAzyme. 2016 , 141, 4456-62	23
945	Application of graphene in dye and quantum dots sensitized solar cell. 2016 , 137, 531-550	28
944	Crossover between Anti- and Pro-oxidant Activities of Graphene Quantum Dots in the Absence or Presence of Light. 2016 , 10, 8690-9	136
943	A hydrothermal route for synthesizing highly luminescent sulfur- and nitrogen-co-doped carbon dots as nanosensors for Hg ²⁺ . 2016 , 6, 86436-86442	19
942	The toxicity of graphene quantum dots. 2016 , 6, 89867-89878	88
941	Graphene Quantum Dots. 2016 , 29-65	
940	Facile self-assembly N-doped graphene quantum dots/graphene for oxygen reduction reaction. 2016 , 216, 102-109	69
939	Metamorphosis of Ruthenium-Doped Carbon Dots: In Search of the Origin of Photoluminescence and Beyond. 2016 , 28, 7404-7413	29
938	Full-band UV shielding and highly daylight luminescent silane-functionalized graphene quantum dot nanofluids and their arbitrary polymerized hybrid gel glasses. 2016 , 4, 9879-9886	45
937	Precisely Controllable Core-Shell Ag@Carbon Dots Nanoparticles: Application to in Situ Super-Sensitive Monitoring of Catalytic Reactions. 2016 , 8, 27956-27965	75
936	Preparation and characterization of a luminescent carbon dots grafted CaSiO ₃ :Eu ³⁺ phosphor for ratiometric fluorescent oxygen sensing. 2016 , 6, 98554-98562	12
935	Graphene quantum dots modified ZnO + Cu heterostructure photocatalysts with enhanced photocatalytic performance. 2016 , 6, 106508-106515	12

934	Modulating the Photocatalytic Activity of Graphene Quantum Dots via Atomic Tailoring for Highly Enhanced Photocatalysis under Visible Light. 2016 , 26, 8211-8219	78
933	Oxidation degree of graphene reflected by morphology-tailored ZnO growth. 2016 , 107, 583-592	2
932	Free-Radical-Assisted Rapid Synthesis of Graphene Quantum Dots and Their Oxidizability Studies. 2016 , 32, 8641-9	35
931	Nitrogen doped graphene quantum dots based single-luminophor generated dual-potential electrochemiluminescence system for ratiometric sensing of Co ²⁺ ion. 2016 , 214, 94-102	42
930	One-step microwave synthesis of N-doped hydroxyl-functionalized carbon dots with ultra-high fluorescence quantum yields. 2016 , 8, 15281-7	155
929	Surface Functionalization of Carbon Dots with Polyhedral Oligomeric Silsesquioxane (POSS) for Multifunctional Applications. 2016 , 3, 1500439	35
928	Photosensitive ZnO-Graphene Quantum Dot Hybrid Nanocomposite for Optoelectronic Applications. 2016 , 1, 1503-1509	10
927	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. 2016 , 33, 8-14	16
926	Synthesis of molecularly imprinted carbon dot grafted YVO ₄ :Eu(3+) for the ratiometric fluorescent determination of paranitrophenol. 2016 , 86, 706-713	66
925	Effects of graphene quantum dots on linear and nonlinear optical behavior of malignant ovarian cells. 2016 , 10, 036014	3
924	Fast preparation of ultrafine monolayered transition-metal dichalcogenide quantum dots using electrochemical shock for explosive detection. 2016 , 52, 11442-11445	16
923	Facile and simultaneous synthesis of graphene quantum dots and reduced graphene oxide for bio-imaging and supercapacitor applications. 2016 , 40, 9111-9124	35
922	Green, simple and large scale synthesis of N-doped graphene quantum dots with uniform edge groups by electrochemical bottom-up synthesis. 2016 , 6, 82648-82653	26
921	Influence of chemical states of doped nitrogen on photoluminescence intensity of hydrothermally synthesized carbon dots. 2016 , 180, 123-131	23
920	CH tailored single-layer and single-crystalline graphene quantum dots. 2016 , 18, 25002-25009	15
919	Chemically clean single-step oxido-reductive synthesis of green luminescent graphene quantum dots as impending electrocatalyst. 2016 , 109, 517-528	20
918	Large-scale synthesis of defect-selective graphene quantum dots by ultrasonic-assisted liquid-phase exfoliation. 2016 , 109, 373-383	67
917	ZnO/rGO nanocomposite layer as a sensitive layer for simplistic ethanol vapor sensor and UV light detector. 2016 , 73, 10401	4

916	Modifying the Size of Ultrasound-Induced Liquid-Phase Exfoliated Graphene: From Nanosheets to Nanodots. 2016 , 10, 10768-10777	45
915	Hydroxylated-graphene quantum dots induce cells senescence in both p53-dependent and -independent manner. 2016 , 5, 1639-1648	24
914	Dual Behaviour of Amorphous Carbon Released Electrochemically from Graphite. 2016 , 1, 4126-4130	5
913	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. 2016 , 11, 565-586	421
912	Facile one-pot preparation of Pd/Au/PEDOT/graphene nanocomposites and their high electrochemical sensing performance for caffeic acid detection. 2016 , 6, 89157-89166	32
911	Two Silver Coordination Network Compounds with Colorful Photoluminescence. 2016 , 55, 7954-61	19
910	A label-free electrochemical immunosensor for the detection of cardiac marker using graphene quantum dots (GQDs). 2016 , 86, 548-556	113
909	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. 2016 , 6, 73939-73946	25
908	Effect of modified graphene quantum dots on photocatalytic degradation property. 2016 , 69, 81-85	22
907	Anomalous Light Emission and Wide Photoluminescence Spectra in Graphene Quantum Dot: Quantum Confinement from Edge Microstructure. 2016 , 7, 2888-92	22
906	Carbon dots: surface engineering and applications. 2016 , 4, 5772-5788	216
905	Sustainable one-pot integration of ZnO nanoparticles into carbon spheres: manipulation of the morphological, optical and electrochemical properties. 2016 , 18, 30794-30807	13
904	Post-oxidation treated graphene quantum dots as a fluorescent probe for sensitive detection of copper ions. 2016 , 664, 127-132	11
903	Heterojunction solar cells with improved power conversion efficiency using graphene quantum dots. 2016 , 6, 110493-110498	13
902	Graphene quantum dots: recent progress in preparation and fluorescence sensing applications. 2016 , 6, 110775-110788	87
901	Chemical Nature of Redox-Controlled Photoluminescence of Graphene Quantum Dots by Post-Synthesis Treatment. 2016 , 120, 26004-26011	26
900	Carbon Dot-Based Platform for Simultaneous Bacterial Distinguishment and Antibacterial Applications. 2016 , 8, 32170-32181	200
899	A self-quenching-resistant carbon nanodot powder with multicolored solid-state fluorescence for ultra-fast staining of various representative bacterial species within one minute. 2016 , 8, 19744-19753	25

898	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. 2016 , 6, 19028	77
897	One-Pot Synthesis of Hydrophilic and Hydrophobic N-Doped Graphene Quantum Dots via Exfoliating and Disintegrating Graphite Flakes. 2016 , 6, 30426	51
896	Gamma ray shifted and enhanced photoluminescence of graphene quantum dots. 2016 , 4, 10538-10544	7
895	Photostable epoxy polymerized carbon quantum dots luminescent thin films and the performance study. 2016 , 6, 767-771	21
894	Intense, stable and excitation wavelength-independent photoluminescence emission in the blue-violet region from phosphorene quantum dots. 2016 , 6, 27307	63
893	White carbon: Fluorescent carbon nanoparticles with tunable quantum yield in a reproducible green synthesis. 2016 , 6, 28557	45
892	Distance-Dependent Electron Transfer in Chemically Engineered Carbon Dots. 2016 , 120, 26630-26636	8
891	Quasi-Continuously Tuning the Size of Graphene Quantum Dots via an Edge-Etching Mechanism. 2016 , 1, 1459-1467	2
890	Chemical Functionalisation and Photoluminescence of Graphene Quantum Dots. 2016 , 22, 8198-206	47
889	Quantum-confined bandgap narrowing of TiO ₂ nanoparticles by graphene quantum dots for visible-light-driven applications. 2016 , 52, 9208-11	51
888	Graphene quantum dots from graphite by liquid exfoliation showing excitation-independent emission, fluorescence upconversion and delayed fluorescence. 2016 , 18, 21278-87	77
887	Effect of the Nature of Exfoliating Agents on the Structure of Graphenes with Various Degrees of Oxidation Obtained by Mechanochemical Treatment. 2016 , 52, 3-9	1
886	Ionic liquid-assisted thermal decomposition synthesis of carbon dots and graphene-like carbon sheets for optoelectronic application. 2016 , 6, 61292-61300	17
885	Transparent sunlight conversion film based on carboxymethyl cellulose and carbon dots. 2016 , 151, 245-250	43
884	Doping MoS ₂ with Graphene Quantum Dots: Structural and Electrical Engineering towards Enhanced Electrochemical Hydrogen Evolution. 2016 , 211, 603-610	55
883	Carbon Based Dots and Their Luminescent Properties and Analytical Applications. 2016 , 161-238	8
882	Different approaches for sensing captopril based on functionalized graphene quantum dots as photoluminescent probe. 2016 , 179, 83-92	8
881	Advances in graphene-based optoelectronics, plasmonics and photonics. 2016 , 7, 013002	14

880	Large scale production of graphene quantum dots through the reaction of graphene oxide with sodium hypochlorite. 2016 , 6, 54644-54648	15
879	Eco-friendly synthesis of nitrogen-doped carbon nanodots from wool for multicolor cell imaging, patterning, and biosensing. 2016 , 235, 316-324	40
878	Structural diversity of graphene materials and their multifarious roles in heterogeneous photocatalysis. 2016 , 11, 351-372	247
877	Sensitive determination of tannic acid using blue luminescent graphene quantum dots as fluorophore. 2016 , 6, 59900-59906	11
876	Graphene quantum dots decorated with Fe ₃ O ₄ nanoparticles/functionalized multiwalled carbon nanotubes as a new sensing platform for electrochemical determination of L-DOPA in agricultural products. 2016 , 8, 5861-5868	20
875	Nitrogen-Doped Graphene Quantum Dots Anchored on Thermally Reduced Graphene Oxide as an Electrocatalyst for the Oxygen Reduction Reaction. 2016 , 3, 864-870	29
874	Highly sensitive and flexible ammonia sensor based on S and N co-doped graphene quantum dots/polyaniline hybrid at room temperature. 2016 , 229, 239-248	139
873	Preparation of graphene oxide and polymer-like quantum dots and their one- and two-photon induced fluorescence properties. 2016 , 18, 4800-6	39
872	Energy-level alignment and open-circuit voltage at graphene/polymer interfaces: theory and experiment. 2016 , 3, 015003	7
871	A green synthesis of highly fluorescent nitrogen-doped graphene quantum dots for the highly sensitive and selective detection of mercury(II) ions and biothiols. 2016 , 8, 1565-1571	50
870	pH-Dependent Synthesis of Novel Structure-Controllable Polymer-Carbon NanoDots with High Acidophilic Luminescence and Super Carbon Dots Assembly for White Light-Emitting Diodes. 2016 , 8, 4062-8	86
869	One-step synthesis of graphene quantum dots from defective CVD graphene and their application in IGZO UV thin film phototransistor. 2016 , 100, 201-207	39
868	Exploring Graphene Quantum Dots/TiO ₂ interface in photoelectrochemical reactions: Solar to fuel conversion. 2016 , 187, 249-255	60
867	One-step in situ synthesis of CeO ₂ nanoparticles grown on reduced graphene oxide as an excellent fluorescent and photocatalyst material under sunlight irradiation. 2016 , 18, 11157-67	73
866	Green synthesis of graphene quantum dots and silver nanoparticles compounds with excellent surface enhanced Raman scattering performance. 2016 , 663, 166-171	30
865	Fabrication of stable homogeneous superhydrophobic HDPE/graphene oxide surfaces on zinc substrates. 2016 , 6, 29823-29829	11
864	Ultrasensitive Profiling of Metabolites Using Tyramine-Functionalized Graphene Quantum Dots. 2016 , 10, 3622-9	124
863	Simple and Cost-Effective Synthesis of Fluorescent Graphene Quantum Dots from Honey: Application as Stable Security Ink and White-Light Emission. 2016 , 33, 70-74	43

862	Dandelion-like ZnS/carbon quantum dots hybrid materials with enhanced photocatalytic activity toward organic pollutants. 2016 , 6, 31551-31558	26
861	Patterned alignment of nematic liquid crystals generated by inkjet printing of gold nanoparticles and emissive carbon dots on both flexible polymer and rigid glass substrates. 2016 , 43, 828-838	10
860	Synthesis of magnetofluorescence Gd-doped CuInS ₂ /ZnS quantum dots with enhanced longitudinal relaxivity. 2016 , 18, 7132-40	21
859	Efficient synthesis of rice based graphene quantum dots and their fluorescent properties. 2016 , 6, 23518-23524	41
858	Economic and Ecofriendly Synthesis of Biocompatible Heteroatom Doped Carbon Nanodots for Graphene Oxide Assay and Live Cell Imaging. 2016 , 4, 1463-1473	10
857	Carbon quantum dots directly generated from electrochemical oxidation of graphite electrodes in alkaline alcohols and the applications for specific ferric ion detection and cell imaging. 2016 , 141, 2657-64	134
856	Graphene-based materials with tailored nanostructures for energy conversion and storage. 2016 , 102, 1-72	189
855	Quantum dots derived from two-dimensional materials and their applications for catalysis and energy. 2016 , 45, 2239-62	311
854	Microwave-Assisted Synthesis of Nitrogen-Doped Multi-Layer Graphene Quantum Dots with Oxygen-Rich Functional Groups. 2016 , 69, 357	27
853	Boosting the lithium storage performance of MoS ₂ with graphene quantum dots. 2016 , 4, 4783-4789	81
852	Insight into the effect of functional groups on visible-fluorescence emissions of graphene quantum dots. 2016 , 4, 2235-2242	34
851	Facile synthesis and photoluminescence characteristics of blue-emitting nitrogen-doped graphene quantum dots. 2016 , 27, 165704	68
850	High quantum yield graphene quantum dots decorated TiO ₂ nanotubes for enhancing photocatalytic activity. 2016 , 375, 230-241	112
849	Mechanism for excitation-dependent photoluminescence from graphene quantum dots and other graphene oxide derivatives: consensus, debates and challenges. 2016 , 8, 7794-807	290
848	Non-covalent decoration of carbon dots with folic acid via a polymer-assisted strategy for fast and targeted cancer cell fluorescence imaging. 2016 , 230, 714-720	42
847	Monodispersed carbon nanodots spontaneously separated from combustion soot with excitation-independent photoluminescence. 2016 , 6, 8456-8460	6
846	Atomic Oxygen Tailored Graphene Oxide Nanosheets Emissions for Multicolor Cellular Imaging. 2016 , 8, 7390-5	40
845	Iron(III) porphyrin supported on S and N co-doped graphene quantum dot as an efficient photocatalyst for aerobic oxidation of alcohols under visible light irradiation. 2016 , 517, 100-109	43

844	Chiral Graphene Quantum Dots. 2016 , 10, 1744-55	216
843	Graphene oxide-based nanomaterials for efficient photoenergy conversion. 2016 , 4, 2014-2048	61
842	Graphene Quantum Dots Produced by Microfluidization. 2016 , 28, 21-24	57
841	Plasmonic nanostructures for surface enhanced spectroscopic methods. 2016 , 141, 756-93	138
840	Bioresponsive carbon nano-gated multifunctional mesoporous silica for cancer theranostics. 2016 , 8, 4537-46	55
839	Chemically doped fluorescent carbon and graphene quantum dots for bioimaging, sensor, catalytic and photoelectronic applications. 2016 , 8, 2532-43	356
838	Recent advances in carbon-based dots for electroanalysis. 2016 , 141, 2619-28	18
837	Polypyrrole and graphene quantum dots @ Prussian Blue hybrid film on graphite felt electrodes: Application for amperometric determination of L-cysteine. 2016 , 77, 1112-8	74
836	Graphene quantum dots prepared from chemical exfoliation of multiwall carbon nanotubes: An efficient photocatalyst promoter. 2016 , 74, 104-109	40
835	A facile and one-step ethanol-thermal synthesis of MoS quantum dots for two-photon fluorescence imaging. 2016 , 4, 27-31	82
834	Sustainable carbon nanomaterials: Recent advances and its applications in energy and environmental remediation. 2016 , 4, 835-856	59
833	Carbon nanomaterials-based electrochemical aptasensors. 2016 , 79, 136-49	123
832	Size controllable preparation of graphitic quantum dots and their photoluminescence behavior. 2016 , 162, 56-59	2
831	Thermal reduction effects on one- and two-photon luminescence in graphene quantum dots. 2016 , 163, 187-191	11
830	A new turn-off fluorescence probe based on graphene quantum dots for detection of Au(III) ion. 2016 , 153, 619-24	35
829	Luminescent phosphate sensor based on upconverting graphene quantum dots. 2016 , 49, 1-4	11
828	Graphene and graphene-like two-denominational materials based fluorescence resonance energy transfer (FRET) assays for biological applications. 2017 , 89, 123-135	116
827	Graphitic carbon nitride nanodots: As reductant for the synthesis of silver nanoparticles and its biothiols biosensing application. 2017 , 89, 411-416	57

826	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. 2017 , 6, 259-267	74
825	Ultrahigh current efficiency of light-emitting devices based on octadecylamine-graphene quantum dots. 2017 , 32, 441-447	35
824	Two-Dimensional SnO Anodes with a Tunable Number of Atomic Layers for Sodium Ion Batteries. 2017 , 17, 1302-1311	95
823	A bio-chemical application of N-GQDs and g-CN QDs sensitized TiO nanopillars for the quantitative detection of pcDNA3-HBV. 2017 , 91, 456-464	50
822	Drug-Derived Bright and Color-Tunable N-Doped Carbon Dots for Cell Imaging and Sensitive Detection of Fe in Living Cells. 2017 , 9, 7399-7405	206
821	Terbium-Aspartic Acid Nanocrystals with Chirality-Dependent Tunable Fluorescent Properties. 2017 , 11, 1973-1981	16
820	Ultraviolet saturable absorption and ultrafast carrier dynamics in ultrasmall black phosphorus quantum dots. 2017 , 9, 4683-4690	83
819	Heterogeneity in the fluorescence of graphene and graphene oxide quantum dots. 2017 , 184, 871-878	33
818	Fluorescent Carbon Dot as Nanosensor for Sensitive and Selective Detection of Cefixime Based on Inner Filter Effect. 2017 , 27, 921-927	27
817	Review on Carbon Dots and Their Applications. 2017 , 45, 139-150	193
816	Synthesis and characterization of graphene quantum dots/CoNiAl-layered double-hydroxide nanocomposite: Application as a glucose sensor. 2017 , 521, 31-39	53
815	Simultaneous Synthesis of WO Quantum Dots and Bundle-Like Nanowires Using a One-Pot Template-Free Solvothermal Strategy and Their Versatile Applications. 2017 , 13, 1603689	64
814	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. 2017 , 207, 429-437	175
813	Nanostructured materials for microwave receptors. 2017 , 87, 221-245	40
812	Phosphorene quantum dot saturable absorbers for ultrafast fiber lasers. 2017 , 7, 42357	121
811	Microwave-assisted synthesis of fluorescent carbon quantum dots from an A2/B3 monomer set. 2017 , 7, 12663-12669	41
810	Optimizing the free radical content of graphene oxide by controlling its reduction. 2017 , 116, 703-712	35
809	Biosensing platform for the detection of uric acid based on graphene quantum dots and G-quadruplex/hemin DNAzyme. 2017 , 965, 96-102	40

808	Graphene quantum dots modified silicon nanowire array for ultrasensitive detection in the gas phase. 2017 , 50, 114002	8
807	Facile synthesis of silver nanoparticles/carbon dots for a charge transfer study and peroxidase-like catalytic monitoring by surface-enhanced Raman scattering. 2017 , 410, 42-50	26
806	A Fe ₃ O ₄ @SiO ₂ @graphene quantum dot core-shell structured nanomaterial as a fluorescent probe and for magnetic removal of mercury(II) ion. 2017 , 184, 1621-1629	38
805	Tunable (violet to green) emission by high-yield graphene quantum dots and exploiting its unique properties towards sun-light-driven photocatalysis and supercapacitor electrode materials. 2017 , 11, 76-86	56
804	Unique properties of graphene quantum dots and their applications in photonic/electronic devices. 2017 , 50, 103002	53
803	Conquering Aggregation-Induced Solid-State Luminescence Quenching of Carbon Dots through a Carbon Dots-Triggered Silica Gelation Process. 2017 , 29, 1779-1787	184
802	Nondestructive Functionalization of Graphene by Surface-Initiated Atom Transfer Radical Polymerization: An Ideal Nanofiller for Poly(p-phenylene benzobisoxazole) Fibers. 2017 , 50, 1422-1429	54
801	Surface disordered rutile TiO ₂ /graphene quantum dot hybrids: a new multifunctional material with superior photocatalytic and biofilm eradication properties. 2017 , 41, 2642-2657	18
800	Origin of Anisotropic Photoluminescence in Heteroatom-Doped Carbon Nanodots. 2017 , 5, 1601049	24
799	Preparation and application of carbon-nanodot@NaCl composite phosphors with strong green emission. 2017 , 497, 165-171	34
798	Green, Rapid, and Universal Preparation Approach of Graphene Quantum Dots under Ultraviolet Irradiation. 2017 , 9, 14470-14477	76
797	A Direct Observation of the Fine Aromatic Clusters and Molecular Structures of Biochars. 2017 , 51, 5473-5482	109
796	Electrochemical synthesis of phosphorus-doped graphene quantum dots for free radical scavenging. 2017 , 19, 11631-11638	110
795	The emerging roles of carbon dots in solar photovoltaics: a critical review. 2017 , 4, 1216-1263	104
794	Graphene quantum dots: multifunctional nanoplatforms for anticancer therapy. 2017 , 5, 6471-6489	87
793	Unusual Assembly and Conversion of Graphene Quantum Dots into Crystalline Graphite Nanocapsules. 2017 , 12, 1272-1276	2
792	A Dual-Readout Method for Biothiols Detection Based on the NSET of Nitrogen-Doped Carbon Quantum Dots-Au Nanoparticles System. 2017 , 27, 1597-1605	9
791	Functional hybrid nanostructure materials: Advanced strategies for sensing applications toward volatile organic compounds. 2017 , 342, 80-105	50

790	Polydopamine interconnected graphene quantum dots and gold nanoparticles for enzymeless H ₂ O ₂ detection. 2017 , 796, 75-81	28
789	One-step and green synthesis of nitrogen-doped carbon quantum dots for multifunctional electronics. 2017 , 7, 21969-21973	17
788	Technical synthesis and biomedical applications of graphene quantum dots. 2017 , 5, 4811-4826	120
787	Red Emissive Sulfur, Nitrogen Codoped Carbon Dots and Their Application in Ion Detection and Theraonostics. 2017 , 9, 18549-18556	270
786	Fluorescent black phosphorus quantum dots as label-free sensing probes for evaluation of acetylcholinesterase activity. 2017 , 250, 601-607	74
785	A dual-emission probe to detect moisture and water in organic solvents based on green-Tb post-coordinated metal-organic frameworks with red carbon dots. 2017 , 46, 7098-7105	71
784	A highly sensitive biosensing platform based on upconversion nanoparticles and graphene quantum dots for the detection of Ag. 2017 , 5, 024010	16
783	Turn-on theranostic fluorescent nanoprobe by electrostatic self-assembly of carbon dots with doxorubicin for targeted cancer cell imaging, in vivo hyaluronidase analysis, and targeted drug delivery. 2017 , 96, 300-307	106
782	Smart Luminescent Coordination Polymers toward Multimode Logic Gates: Time-Resolved, Tribochromic and Excitation-Dependent Fluorescence/Phosphorescence Emission. 2017 , 9, 17399-17407	81
781	Carbon quantum dots in ionic liquids: a new generation of environmentally benign photoluminescent inks. 2017 , 5, 4951-4958	27
780	Understanding chemically processed solar cells based on quantum dots. 2017 , 18, 334-350	29
779	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. 2017 , 31, 359-366	90
778	Sequence-Designed Peptide Nanofibers Bridged Conjugation of Graphene Quantum Dots with Graphene Oxide for High Performance Electrochemical Hydrogen Peroxide Biosensor. 2017 , 4, 1600895	51
777	Current and future directions in electron transfer chemistry of graphene. 2017 , 46, 4530-4571	101
776	Loading CdZnS Quantum Dots onto Onion-Like Carbon Nanoparticles to Boost Photocatalytic Hydrogen Generation. 2017 , 9, 22560-22567	39
775	Enhancing photoluminescence of graphene quantum dots by thermal annealing of the graphite precursor. 2017 , 93, 183-193	26
774	Electrochemical sensor for discrimination tyrosine enantiomers using graphene quantum dots and β -cyclodextrins composites. 2017 , 173, 94-100	66
773	Strongly coupled CdS/graphene quantum dots nanohybrids for highly efficient photocatalytic hydrogen evolution: Unraveling the essential roles of graphene quantum dots. 2017 , 216, 59-69	160

772	Transport properties of graphene quantum dots in glycerol and distilled water. 2017 , 241, 831-838	29
771	Incorporating doped carbon nanodots and metal ions as an excellent artificial peroxidase for H ₂ O ₂ detection. 2017 , 7, 31281-31286	5
770	Green synthesis of nitrogen-doped fluorescent carbon quantum dots for selective detection of iron. 2017 , 25, 417-422	12
769	New Carbon Nanodots-Silica Hybrid Photocatalyst for Highly Selective Solar Fuel Production from CO ₂ . 2017 , 9, 3153-3159	11
768	Selenium-Doped Carbon Quantum Dots for Free-Radical Scavenging. 2017 , 56, 9910-9914	182
767	Industrial production of ultra-stable sulfonated graphene quantum dots for Golgi apparatus imaging. 2017 , 5, 5355-5361	46
766	Functionalization of graphene quantum dots by fluorine: Preparation, properties, application, and their mechanisms. 2017 , 110, 221901	27
765	Unraveling the Hydrogen Evolution Reaction Active Sites in N-Functionalized Interconnected Graphene Quantum Dots. 2017 , 2, 4511-4515	6
764	Controllable ionic liquid-assisted electrochemical exfoliation of carbon fibers for the green and large-scale preparation of functionalized graphene quantum dots endowed with multicolor emission and size tunability. 2017 , 5, 6092-6100	21
763	Synthesis of N doped graphene quantum dots-interspersed CdWO ₄ heterostructure nanorods as an effective photocatalyst with enhanced photoelectrochemical performance. 2017 , 724, 1014-1022	14
762	One step electro-oxidative preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic. 2017 , 173, 36-43	60
761	Synthesis, characterization and cells and tissues imaging of carbon quantum dots. 2017 , 72, 15-19	34
760	Black Phosphorus Quantum Dot Induced Oxidative Stress and Toxicity in Living Cells and Mice. 2017 , 9, 20399-20409	101
759	A bionic strategy for addressing scale-span issues in all-carbon electrocatalytic systems. 2017 , 245, 318-326	5
758	N, S co-doped carbon dots with high quantum yield: tunable fluorescence in liquid/solid and extensible applications. 2017 , 19, 1	16
757	Self-assembled nanoporous graphene quantum dot-Mn ₃ O ₄ nanocomposites for surface-enhanced Raman scattering based identification of cancer cells. 2017 , 7, 18658-18667	12
756	Carbon dots: materials, synthesis, properties and approaches to long-wavelength and multicolor emission. 2017 , 5, 3794-3809	195
755	Portable solid rapid quantitative detection for Cu ²⁺ ions: Tuning the detection range limits of fluorescent conducting polymer dots. 2017 , 32, 1582-1593	1

754	One-step synthesis of nitrogen, boron co-doped fluorescent carbon nanoparticles for glucose detection. 2017 , 32, 1031-1038	12
753	Simultaneously fabrication of free and solidified N, S-doped graphene quantum dots via a facile solvent-free synthesis route for fluorescent detection. 2017 , 168, 269-278	49
752	Black Phosphorus Quantum Dots as the Ratiometric Fluorescence Probe for Trace Mercury Ion Detection Based on Inner Filter Effect. 2017 , 2, 576-582	123
751	Nitrogen and sulfur co-doped carbon quantum dots for highly selective and sensitive fluorescent detection of Fe(III) ions and L-cysteine. 2017 , 184, 2291-2298	84
750	Synthesis of a novel nitrogen-doped carbon dot by microwave-assisted carbonization method and its applications as selective probes for optical pH (acidity) sensing in aqueous/nonaqueous media, determination of nitrate/nitrite, and optical recognition of NO gas. 2017 , 968, 74-84	26
749	Selective storage and evolution of hydrogen on nafion/NaCl/graphene quantum dot mixed matrix using tensammetry as power electrochemical technique. 2017 , 42, 9428-9439	2
748	Self-exothermic reaction prompted synthesis of single-layered graphene quantum dots at room temperature. 2017 , 53, 4958-4961	48
747	Memristive Devices with Highly Repeatable Analog States Boosted by Graphene Quantum Dots. 2017 , 13, 1603435	36
746	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. 2017 , 4, 1600435	135
745	Assembling nitrogen and oxygen co-doped graphene quantum dots onto hierarchical carbon networks for all-solid-state flexible supercapacitors. 2017 , 235, 561-569	62
744	Graphene quantum dots: effect of size, composition and curvature on their assembly. 2017 , 7, 17704-17710	27
743	Photoluminescence mechanism in graphene quantum dots: Quantum confinement effect and surface/edge state. 2017 , 13, 10-14	269
742	Microwave-assisted synthesis of luminescent and biocompatible lysine-based carbon quantum dots. 2017 , 47, 329-335	96
741	Oxidant mediated one-step complete conversion of multi-walled carbon nanotubes to graphene quantum dots and their bioactivity against mammalian and bacterial cells. 2017 , 5, 785-796	25
740	Nano-sized graphene flakes: insights from experimental synthesis and first principles calculations. 2017 , 19, 6338-6344	9
739	Graphene quantum dots prepared from glucose as optical sensor for glucose. 2017 , 184, 110-116	122
738	New insight into electrooxidation of graphene into graphene quantum dots. 2017 , 690, 129-132	12
737	Spotlighting graphene quantum dots and beyond: Synthesis, properties and sensing applications. 2017 , 9, 350-371	63

- 736 Highly improved performance in Zr_{0.5}Hf_{0.5}O₂ films inserted with graphene oxide quantum dots layer for resistive switching non-volatile memory. **2017**, 5, 11046-11052 48
- 735 Formation of Layer-Structured Black Phosphorus Nanocrystals during High-Speed Rotation of Two-Dimensional Amorphous Ultrathin Films. **2017**, 17, 5608-5613
- 734 Nanohybrid of Co₃O₄ and histidine-functionalized graphene quantum dots for electrochemical detection of hydroquinone. **2017**, 255, 323-334 37
- 733 Rare-Earth Free Self-Activated Graphene Quantum Dots and Copper-Cysteamine Phosphors for Enhanced White Light-Emitting-Diodes under Single Excitation. **2017**, 7, 12872 33
- 732 Boron- and nitrogen-doped photoluminescent polymer carbon nanoparticles as nanosensors for imaging detection of Cu²⁺ and biothiols in living cells. **2017**, 7, 47654-47661 14
- 731 Enhanced properties of photovoltaic devices tailored with novel supramolecular structures based on reduced graphene oxide nanosheets grafted/functionalized with thiophenic materials. **2017**, 55, 1877-1889¹⁴
- 730 A fluorescence switching sensor based on graphene quantum dots decorated with Hg²⁺ and hydrolyzed thioacetamide for highly Ag⁺-sensitive and selective detection. **2017**, 7, 48058-48067 26
- 729 Highly Efficient Moisture-Triggered Nanogenerator Based on Graphene Quantum Dots. **2017**, 9, 38170-38175 54
- 728 Differentiating the impact of nitrogen chemical states on optical properties of nitrogen-doped graphene quantum dots. **2017**, 7, 48263-48267 28
- 727 Solid state photoluminescence thermoplastic starch film containing graphene quantum dots. **2017**, 176, 220-226 51
- 726 Facile microwave approach to controllable boron nitride quantum dots. **2017**, 52, 13522-13532 18
- 725 Fluorescent carbon dots: rational synthesis, tunable optical properties and analytical applications. **2017**, 7, 40973-40989 120
- 724 Enhanced p-type behavior in the hybrid structure of graphene quantum dots/2D-WSe₂. **2017**, 111, 111603 5
- 723 Fabrication of photo-electrochemical biosensors for ultrasensitive screening of mono-bioactive molecules: the effect of geometrical structures and crystal surfaces. **2017**, 5, 7985-7996 77
- 722 Tumor Cell-Specific Nuclear Targeting of Functionalized Graphene Quantum Dots In Vivo. **2017**, 28, 2608-2619 19
- 721 Selective engineering of oxygen-containing functional groups using the alkyl ligand oleylamine for revealing the luminescence mechanism of graphene oxide quantum dots. **2017**, 9, 18635-18643 12
- 720 Synthesis, characterization and photocatalytic activity of graphene quantum dots-Ag solar driven photocatalyst. **2017**, 28, 17570-17577 7
- 719 Understanding the Capsanthin Tails in Regulating the Hydrophilic-Lipophilic Balance of Carbon Dots for a Rapid Crossing Cell Membrane. **2017**, 33, 10259-10270 19

7 ¹⁸	A Ratiometric Fluorescence Universal Platform Based on N, Cu Codoped Carbon Dots to Detect Metabolites Participating in HO-Generation Reactions. 2017 , 9, 33011-33019	112
7 ¹⁷	Hydrothermal green synthesis and photocatalytic activity of magnetic CoFe ₂ O ₄ /carbon quantum dots nanocomposite by turmeric precursor. 2017 , 28, 16205-16214	25
7 ¹⁶	New Understanding on Photocatalytic Mechanism of Nitrogen-Doped Graphene Quantum Dots-Decorated BiVO ₄ Nanojunction Photocatalysts. 2017 , 2, 3766-3773	26
7 ¹⁵	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. <i>Advanced Materials</i> , 2017 , 29, 1701704	24 47
7 ¹⁴	Analysis of penicillamine using Cu-modified graphene quantum dots synthesized from uric acid as single precursor. 2017 , 7, 324-331	26
7 ¹³	Enhanced Performance of GaN-based Ultraviolet Light Emitting Diodes by Photon Recycling Using Graphene Quantum Dots. 2017 , 7, 7108	17
7 ¹²	Hydrogen evolution reaction catalyzed by ruthenium ion-complexed graphitic carbon nitride nanosheets. 2017 , 5, 18261-18269	102
7 ¹¹	Efficient synthesis of highly fluorescent carbon dots by microreactor method and their application in Fe ion detection. 2017 , 81, 213-223	44
7 ¹⁰	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. 2017 , 5, 1700257	51
7 ⁰⁹	Facile preparation of sulphur-doped graphene quantum dots for ultra-high performance ultraviolet photodetectors. 2017 , 41, 10447-10451	26
7 ⁰⁸	Simultaneous Preparation of Mesoporous/Macroporous Graphene Aerogels and Bright Green Photoluminescent Graphene Quantum Dots by a Simple Solvothermal Method. 2017 , 56, 10028-10035	7
7 ⁰⁷	Carbon quantum dot tailored calcium alginate hydrogel for pH responsive controlled delivery of vancomycin. 2017 , 109, 359-371	51
7 ⁰⁶	Role of Pyridinic-N for Nitrogen-doped graphene quantum dots in oxygen reaction reduction. 2017 , 508, 154-158	44
7 ⁰⁵	Graphene quantum dot (GQD)-induced photovoltaic and photoelectric memory elements in a pentacene/GQD field effect transistor as a probe of functional interface. 2017 , 50, 365303	5
7 ⁰⁴	Environmentally friendly nitrogen-doped carbon quantum dots for next generation solar cells. 2017 , 1, 1611-1619	61
7 ⁰³	Facile preparation and the stepwise formation mechanistic investigation of gram-scale nitrogen-doped graphene quantum dots. 2017 , 5, 9174-9180	6
7 ⁰²	Infusion of Graphene Quantum Dots to Create Stronger, Tougher, and Brighter Polymer Composites. 2017 , 2, 4356-4362	36
7 ⁰¹	Sustainable Bioresource-Derived Components for Molecular Keypad Lock and IMPLICATION Logic Gate Construction. 2017 , 2, 11615-11619	2

700	Synthesis of Excitation Independent Highly Luminescent Graphene Quantum Dots through Perchloric Acid Oxidation. 2017 , 33, 14634-14642	37
699	Electrochemical Method To Prepare Graphene Quantum Dots and Graphene Oxide Quantum Dots. 2017 , 2, 8343-8353	127
698	Bio-conjugation of graphene quantum dots for targeting imaging. 2017 , 7, 53532-53536	14
697	Nanostructured carbon electrode modified with N-doped graphene quantum dots-chitosan nanocomposite: a sensitive electrochemical dopamine sensor. 2017 , 4, 171199	38
696	Oxygen Containing Functional Groups Dominate the Electrochemiluminescence of Pristine Carbon Dots. 2017 , 121, 27546-27554	21
695	Rapid, Acid-Free Synthesis of High-Quality Graphene Quantum Dots for Aggregation Induced Sensing of Metal Ions and Bioimaging. 2017 , 2, 8051-8061	52
694	Tuning the photoluminescence of graphene quantum dots by co-doping of nitrogen and sulfur. 2017 , 19, 1	14
693	Effect of defects on quantum yield in blue emitting photoluminescent nitrogen doped graphene quantum dots. 2017 , 122, 145107	31
692	Selenium-Doped Carbon Quantum Dots for Free-Radical Scavenging. 2017 , 129, 10042-10046	38
691	Surface Plasmon Enhanced Nitrogen-Doped Graphene Quantum Dot Emission by Single Bismuth Telluride Nanoplates. 2017 , 5, 1700176	13
690	High-performance pseudocapacitor electrode materials: cobalt (II) chloride@QDs electrodes. 2017 , 6, 227-233	12
689	Size effects of a graphene quantum dot modified-blocking TiO ₂ layer for efficient planar perovskite solar cells. 2017 , 5, 16834-16842	50
688	Conjugated polymer covalently modified graphene oxide quantum dots for ternary electronic memory devices. 2017 , 9, 10610-10618	45
687	Algae biomass as a precursor for synthesis of nitrogen-and sulfur-co-doped carbon dots: A better probe in Arabidopsis guard cells and root tissues. 2017 , 174, 315-322	28
686	Synthesis of green-photoluminescent single layer graphene quantum dots: Determination of HOMO and LUMO energy states. 2017 , 192, 180-183	68
685	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. 2017 , 50, 1663-1671	79
684	Large-scale simultaneous synthesis of highly photoluminescent green amorphous carbon nanodots and yellow crystalline graphene quantum dots at room temperature. 2017 , 19, 3611-3617	104
683	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. 2017 , 6, 943-976	49

682	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. 2017 , 6, 70-97	201
681	In-situ direct grafting of graphene quantum dots onto carbon fibre by low temperature chemical synthesis for high performance flexible fabric supercapacitor. 2017 , 10, 112-119	38
680	Near-Ultraviolet Fluorescent "ON-OFF-ON" Switching Sensors Based on Nitrogen-Enriched Dual-Color Single-Functional Polymer Carbon Nanosheets. 2017 , 23, 665-675	22
679	Deposition Methods of Graphene as Electrode Material for Organic Solar Cells. 2017 , 7, 1601393	45
678	Highly fluorescent nitrogen and sulfur co-doped graphene quantum dots for an inner filter effect-based cyanide sensor. 2017 , 241, 779-788	61
677	Photoluminescence Quenching in Quantum Emitter, Metallic Nanoparticle, and Graphene Hybrids. 2017 , 12, 1021-1028	15
676	Preparation of thermoresponsive fluorescent carbon dots for cellular imaging. 2017 , 66, 92-97	6
675	The quenching of silver nanoparticles photoluminescence by graphene oxide: spectroscopic and morphological investigations. 2017 , 28, 1804-1811	8
674	GQDs-TiO ₂ heterojunction based thin films for volatile organic compounds sensor with excellent performance at room temperature. 2017 , 186, 193-197	16
673	Magnetic nanoparticles embedded with graphene quantum dots and multiwalled carbon nanotubes as a sensing platform for electrochemical detection of progesterone. 2017 , 238, 346-356	86
672	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes. <i>Advanced Materials</i> , 2017 , 29, 1604436	24 437
671	Facile synthesis of sulfur-doped graphene quantum dots as fluorescent sensing probes for Ag ⁺ ions detection. 2017 , 242, 231-237	154
670	Facile one-step hydrothermal synthesis toward strongly coupled TiO ₂ /graphene quantum dots photocatalysts for efficient hydrogen evolution. 2017 , 396, 1375-1382	116
669	Fabrication of visible-light active Fe ₂ O ₃ -GQDs/NF-TiO ₂ composite film with highly enhanced photoelectrocatalytic performance. 2017 , 205, 347-356	45
668	Facile synthesis of amine-functionalized graphene quantum dots with highly pH-sensitive photoluminescence. 2017 , 25, 704-709	20
667	Synthesis of hydrophilic and hydrophobic carbon quantum dots from waste of wine fermentation. 2017 , 4, 170900	28
666	Photoluminescence enhancement of amino-functionalized graphene quantum dots in two-dimensional optical resonators. 2017 , 25, 1444-1451	4
665	Heterostructural Graphene Quantum Dot/MnO Nanosheets toward High-Potential Window Electrodes for High-Performance Supercapacitors. 2018 , 5, 1700887	155

664	A Supramolecular Polymer Network of Graphene Quantum Dots. 2018 , 130, 5054-5058	16
663	A Supramolecular Polymer Network of Graphene Quantum Dots. 2018 , 57, 4960-4964	31
662	Graphene and its derivatives for solar cells application. 2018 , 47, 51-65	189
661	Hybridization of carbon-dots with ZnO nanoparticles of different sizes. 2018 , 92, 112-117	28
660	Drawn a facile sensor: A fast response humidity sensor based on pencil-trace. 2018 , 261, 345-353	35
659	Multiplexed ratiometric photoluminescent detection of pyrophosphate using anisotropic boron-doped nitrogen-rich carbon rugby ball-like nanodots. 2018 , 6, 1771-1781	16
658	Graphene-quantum-dots induced NiCo ₂ S ₄ with hierarchical-like hollow nanostructure for supercapacitors with enhanced electrochemical performance. 2018 , 269, 45-54	35
657	Table sugar derived Carbon dot as naked eye sensor for toxic Pb ²⁺ ions. 2018 , 264, 67-75	54
656	Graphene-based optical nanosensors for detection of heavy metal ions. 2018 , 102, 280-289	63
655	A novel synthesis of magnetic and photoluminescent graphene quantum dots/MFe ₂ O ₄ (M = Ni, Co) nanocomposites for catalytic application. 2018 , 443, 484-491	28
654	Ionic liquid-induced double regulation of carbon quantum dots modified bismuth oxychloride/bismuth oxybromide nanosheets with enhanced visible-light photocatalytic activity. 2018 , 519, 263-272	49
653	Hydroxylated-Graphene Quantum Dots Induce DNA Damage and Disrupt Microtubule Structure in Human Esophageal Epithelial Cells. 2018 , 164, 339-352	20
652	Electrochemically prepared oxygen and sulfur co-doped graphitic carbon nitride quantum dots for fluorescence determination of copper and silver ions and biothiols. 2018 , 1027, 121-129	41
651	Design of Fe ₃ O ₄ @SiO ₂ @mSiO ₂ -organosilane carbon dots nanoparticles: Synthesis and fluorescence red-shift properties with concentration dependence. 2018 , 151, 89-101	13
650	Facile synthesis and versatile applications of amorphous carbon dot. 2018 , 5, 10077-10083	8
649	Green synthesis of red-emission carbon based dots by microbial fermentation. 2018 , 42, 8591-8595	6
648	Black phosphorus quantum dots as dual-functional electron-selective materials for efficient plastic perovskite solar cells. 2018 , 6, 8886-8894	62
647	Recent advances in phosphorene as a sensing material. 2018 , 20, 13-32	105

646	Highly photoluminescent carbon dots derived from linseed and their applications in cellular imaging and sensing. 2018 , 6, 3181-3187	39
645	In-situ synthesis of gold nanoparticles on graphene quantum dots-phthalocyanine nanoplatfoms: First description of the photophysical and surface enhanced Raman scattering behaviour. 2018 , 359, 131-144	14
644	Carbon quantum dots based charge bridge between photoanode and electrocatalysts for efficiency water oxidation. 2018 , 273, 208-215	16
643	Semiconductor versus graphene quantum dots as fluorescent probes for cancer diagnosis and therapy applications. 2018 , 6, 2690-2712	29
642	Trace level detection of guanine and adenine and evaluation of damage to DNA using electro-synthesised ZnS@CdS core-shell quantum dots decorated graphene oxide nanocomposite. 2018 , 817, 149-159	10
641	Investigation of sulfur related defects in graphene quantum dots for tuning photoluminescence and high quantum yield. 2018 , 449, 363-370	43
640	Thermal Effect of Sulfur Doping for Luminescent Graphene Quantum Dots. 2018 , 7, M29-M34	44
639	Fabrication of a Room Temperature Ammonia Gas Sensor Based on Polyaniline With N-Doped Graphene Quantum Dots. 2018 , 18, 2245-2252	30
638	Recent Advances in Graphene Quantum Dots as Bioimaging Probes. 2018 , 2, 45-60	19
637	Nanospace-confined preparation of uniform nitrogen-doped graphene quantum dots for highly selective fluorescence dual-function determination of Fe and ascorbic acid.. 2018 , 8, 5500-5508	17
636	The use of SO and HO as novel specific masking agents for highly selective "turn-on" fluorescent switching recognition of CN and I based on Hg-graphene quantum dots.. 2018 , 8, 1407-1417	15
635	Chemical modification of group IV graphene analogs. 2018 , 19, 76-100	22
634	Preparation of nitrogen-doped carbon using graphene Quantum dots-chitosan as the precursor and its supercapacitive behaviors. 2018 , 112, 561-566	15
633	Synthesis and applications of graphene quantum dots: a review. 2018 , 7, 157-185	151
632	Raman spectroscopy of graphene-based materials and its applications in related devices. 2018 , 47, 1822-1873	814
631	Carbon dots-modified chitosan based electrochemical biosensing platform for detection of vitamin D. 2018 , 109, 687-697	56
630	Flexible in-plane graphene oxide moisture-electric converter for touchless interactive panel. 2018 , 45, 37-43	53
629	Single Source Precursor Chemical Vapor Decomposition Method to Fabricate Stable, Bright Emissive Aluminum Hydroxide Phosphors for UV-Pumped White Light-Emitting Devices. 2018 , 6, 1701115	7

628	Sensitive determination of rutin by spectrofluorimetry using carbon dots synthesized from a non-essential amino acid. 2018 , 193, 486-491	18
627	Optical graphene quantum dots gas sensors: Theoretical study. 2018 , 114, 321-330	17
626	Graphene Platforms for Smart Energy Generation and Storage. 2018 , 2, 245-268	124
625	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. 2018 , 34, 250-258	49
624	3D nano-arrays of silver nanoparticles and graphene quantum dots with excellent surface-enhanced Raman scattering. 2018 , 34, 679-687	5
623	Raman enhancement on ultra-clean graphene quantum dots produced by quasi-equilibrium plasma-enhanced chemical vapor deposition. 2018 , 9, 193	79
622	Graphene quantum dots (GQDs) and its derivatives for multifarious photocatalysis and photoelectrocatalysis. 2018 , 315, 171-183	94
621	Highly Efficient Catalytic Oxidation of Inert C(sp ³) C-Bonds by the Synergistic Effect of Copper Nanoparticles/N-Doped Graphene. 2018 , 2018, 1121-1129	12
620	One-Step Synthesis of N-Doped Graphene Quantum Dots from Chitosan as a Sole Precursor Using Chemical Vapor Deposition. 2018 , 122, 2343-2349	67
619	β-Graphene Crosslinked CsPbI ₃ Quantum Dots for High Efficiency Solar Cells with Much Improved Stability. 2018 , 8, 1800007	167
618	Coordination Polymers with Intriguing Photoluminescence Behavior: The Promising Avenue for Greatest Long-Lasting Phosphors. 2018 , 2018, 2155-2174	26
617	Electronic structure manipulation of graphene dots for effective hydrogen evolution from photocatalytic water decomposition. 2018 , 10, 10721-10730	19
616	Enhanced performance of porphyrin sensitized solar cell based on graphene quantum dots decorated photoanodes. 2018 , 79, 435-445	13
615	Graphene Oxide/TiO ₂ Nanocomposite Films for Electron Transport Applications. 2018 , 47, 3749-3756	7
614	Temperature sensing using sulfur-doped carbon nanoparticles. 2018 , 133, 200-208	17
613	Synthesis and characterization of graphene quantum dots/cobalt ferrite nanocomposite. 2018 , 310, 012139	14
612	Synthesis and spectroscopic studies of functionalized graphene quantum dots with diverse fluorescence characteristics. 2018 , 8, 11446-11454	42
611	Enhancement of graphene quantum dots based applications via optimum physical chemistry: A review. 2018 , 38, 481-497	21

610	Novel 3D core-shell structured CQDs/Ag ₃ PO ₄ @Benzoxazine tetrapods for enhancement of visible-light photocatalytic activity and anti-photocorrosion. 2018 , 232, 574-586	29
609	A 3-hydroxyflavone derivative as fluorescence chemosensor for copper and zinc ions. 2018 , 54, 125-129	5
608	Hollow carbon dots labeled with FITC or TRITC for use in fluorescent cellular imaging. 2018 , 185, 223	7
607	Highly-efficient organic light-emitting devices based on poly(N,N'-bis-4-butylphenyl-N,N'-bisphenyl)benzidine:octadecylamine-graphene quantum dots. 2018 , 57, 305-310	11
606	Recent progress on the photocatalysis of carbon dots: Classification, mechanism and applications. 2018 , 19, 201-218	353
605	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO Reduction. 2018 , 12, 3523-3532	222
604	Black phosphorus quantum dots for femtosecond laser photonics. 2018 , 406, 85-90	21
603	Enhanced photocurrent density of HTM-free perovskite solar cells by carbon quantum dots. 2018 , 430, 625-631	53
602	Graphene quantum dots derived from hollow carbon nano-onions. 2018 , 11, 174-184	19
601	Mitochondrial specific photodynamic therapy by rare-earth nanoparticles mediated near-infrared graphene quantum dots. 2018 , 153, 14-26	154
600	The photoluminescence of step-wise reduced graphene oxide quantum dots. 2018 , 203, 125-132	11
599	A graphene quantum dots based electrochemiluminescence immunosensor for carcinoembryonic antigen detection using poly(5-formylindole)/reduced graphene oxide nanocomposite. 2018 , 101, 123-128	79
598	Facile preparation of zinc oxide nanorods surrounded by graphene quantum dots both synthesized via separate pyrolysis procedures for photocatalyst application. 2018 , 98, 148-154	32
597	Graphene quantum dots decorated rutile TiO ₂ nanoflowers for water splitting application. 2018 , 27, 306-310	31
596	Improved photoelectrocatalytic hydrogen generation through BiVO ₄ quantum-dots loaded on nano-structured SnO ₂ and modified with carbon quantum-dots. 2018 , 331, 48-53	27
595	Graphene quantum dots produced by exfoliation of intercalated graphite nanoparticles and their application for temperature sensors. 2018 , 427, 1152-1157	25
594	Ultrasonic-assisted preparation of graphene oxide carboxylic acid polyvinyl alcohol polymer film and studies of thermal stability and surface resistivity. 2018 , 40, 798-807	14
593	Nitrogen, sulphur co-doped graphene quantum dot: An excellent sensor for nitroexplosives. 2018 , 257, 586-593	53

592	Synthesis of Carbon Dots with Multiple Color Emission by Controlled Graphitization and Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, 1704740	24	536
591	Naturally Dried, Double Nitrogen-Doped 3D Graphene Aerogels Modified by Plant Extracts for Multifunctional Applications. 2018 , 6, 1172-1181		27
590	Towards high-powered remote WLED based on flexible white-luminescent polymer composite films containing S, N co-doped graphene quantum dots. 2018 , 336, 406-415		37
589	Colloidal carbon dots based highly stable luminescent solar concentrators. 2018 , 44, 378-387		102
588	Graphene quantum dots nanosensor derived from 3D nanomesh graphene frameworks and its application for fluorescent sensing of Cu ²⁺ in rat brain. 2018 , 258, 672-681		25
587	Recent progress in two-dimensional inorganic quantum dots. 2018 , 47, 586-625		169
586	Electrogenerated chemiluminescence of Ru(bpy) at a black phosphorus quantum dot modified electrode and its sensing application. 2017 , 143, 304-310		33
585	Size-Controlled Graphene Nanodot Arrays/ZnO Hybrids for High-Performance UV Photodetectors. 2018 , 5, 1700334		50
584	The application of graphene-based materials as chromatographic stationary phases. 2018 , 98, 149-160		49
583	Two dimensional materials based photodetectors. 2018 , 88, 149-173		50
582	Tuning the wettability and photoluminescence of graphene quantum dots via covalent modification. 2018 , 42, 355-362		21
581	Green anhydrous synthesis of hydrophilic carbon dots on large-scale and their application for broad fluorescent pH sensing. 2018 , 255, 572-579		45
580	Graphene quantum dots against human IAPP aggregation and toxicity in vivo. 2018 , 10, 19995-20006		67
579	Biomimetic colloidal photonic crystals by coassembly of polystyrene nanoparticles and graphene quantum dots.. 2018 , 8, 34839-34847		11
578	Synthesis of highly stable red-emissive carbon polymer dots by modulated polymerization: from the mechanism to application in intracellular pH imaging. 2018 , 10, 22484-22492		49
577	Graphene quantum dots from chemistry to applications. 2018 , 10, 221-258		306
576	Graphene-Based Nanomaterials and Their Applications in Biosensors. 2018 , 1064, 61-71		5
575	Assembly of NiAl layered double hydroxide and oxide graphene quantum dots for supercapacitors. 2018 , 33, 4215-4223		6

574	Water Soluble Fluorescent Graphene Nanodots. 2018 , 4, 1177-1188	3
573	A Reduced Graphene Oxide Quantum Dot-Based Adsorbent for Efficiently Binding with Organic Pollutants. 2018 , 1, 6502-6513	23
572	Using Distributed Energy States of Graphene Quantum Dots for an Efficient Hole-Injection Media in an Organic Electroluminescent Device. 2018 , 39, 1912-1915	2
571	Production of pristine graphene quantum dots from graphite by a shear-mixer in supercritical CO ₂ . 2018 , 710, 64-69	7
570	Comet-like Heterodimers "Gold Nanoflower @Graphene Quantum Dots" Probe with FRET "Off" to DNA Circuit Signal "On" for Sensing and Imaging MicroRNA In Vitro and In Vivo. 2018 , 90, 11538-11547	20
569	Carbon-Based, Metal-Free Catalysts for Photocatalysis. 2018 , 457-500	0
568	Surface state selective tunable emission of graphene quantum dots exhibiting novel thermal quenching characteristics. 2018 , 140, 394-403	20
567	Direct Synthesis of Graphene Quantum Dots with Different Fluorescence Properties by Oxidation of Graphene Oxide Using Nitric Acid. 2018 , 8, 1303	31
566	Selective oxidation rapidly decomposes biomass-based activated carbons into graphite-like crystallites. 2018 , 140, 504-507	16
565	Fluorescent Nanosensor Based on Molecularly Imprinted Polymers Coated on Graphene Quantum Dots for Fast Detection of Antibiotics. 2018 , 8,	29
564	Fabrication of ultra-small monolayer graphene quantum dots by pyrolysis of trisodium citrate for fluorescent cell imaging. 2018 , 13, 4807-4815	46
563	Photo-and Electroluminescence from Nitrogen-Doped and NitrogenSulfur Codoped Graphene Quantum Dots. 2018 , 28, 1804337	70
562	Green synthesis of N, S co-doped carbon quantum dots from triflic acid treated palm shell waste and their application in nitrophenol sensing. 2018 , 108, 250-254	33
561	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. 2018 , 35, 1800080	14
560	Suppression of spin and optical gaps in phosphorene quantum dots. 2018 , 97,	5
559	In Situ Nanoreactors: Controllable Photoluminescent Carbon-Rich Polymer Nanodots Derived from Fatty Acid under Photoirradiation. 2018 , 39, e1800152	9
558	Robust Fabrication of Quantum Dots on Few-Layer MoS ₂ by Soft Hydrogen Plasma and Post-Annealing. 2018 , 35, 1800060	2
557	Non-ionic Fluorosurfactant Improves Wettability of Nitrogen-functionalized Graphene Quantum Dots for Integration with Optoelectronic Devices. 2018 , 47, 850-852	9

556	Highly Brilliant Noniridescent Structural Colors Enabled by Graphene Nanosheets Containing Graphene Quantum Dots. 2018 , 28, 1802585	94
555	Post-epoxidation of graphene quantum dots. 2018 , 706, 140-144	3
554	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. 2018 , 2, 1800050	108
553	Novel method for in situ investigation into graphene quantum dots effects on the adsorption of nitrated polycyclic aromatic hydrocarbons by crop leaf surfaces. 2018 , 162, 10-16	6
552	Biomedical Applications of Graphene Nanomaterials and Beyond. 2018 , 4, 2653-2703	123
551	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018 , 169-225	5
550	Synthesis of white fluorescent pyrrolic nitrogen-doped graphene quantum dots. 2018 , 83, 306-314	21
549	Ultrahigh-luminosity white-light-emitting devices based on edge functionalized graphene quantum dots. 2018 , 51, 199-205	19
548	Tannic acid-assisted green fabrication of functionalized graphene towards its enhanced compatibility in NR nanocomposite. 2018 , 70, 396-402	18
547	Ultrasensitive sensing of <i>Androctonus australis hector</i> scorpion venom toxins in biological fluids using an electrochemical graphene quantum dots/nanobody-based platform. 2018 , 190, 182-187	8
546	High-performance Förster resonance energy transfer-based dye-sensitized photocatalytic H ₂ evolution with graphene quantum dots as the homogeneous energy donor. 2018 , 17, 1147-1152	4
545	Carbon Quantum Dots: A Component of Efficient Visible Light Photocatalysts. 2018 ,	7
544	The pH Effect on Thermal Response of Fluorescence Spectroscopy of Graphene Quantum Dots for Nanoscale Thermal Characterization. 2018 , 27, 345-356	3
543	Preparation of graphene quantum dots through liquid phase exfoliation method. 2018 , 204, 203-208	11
542	Interactions between Graphene-Based Materials and Water Molecules toward Actuator and Electricity-Generator Applications. 2018 , 2, 1800108	23
541	Selective supramolecular interaction of ethylenediamine functionalized graphene quantum dots: Ultra-sensitive photoluminescence detection for nickel ion in vitro. 2018 , 244, 106-112	22
540	An ultrasensitive electrochemiluminescence sensor for the detection of HULC based on Au@Ag/GQDs as a signal indicator. 2018 , 824, 114-120	20
539	Mechanochemical Green Synthesis of Exfoliated Edge-Functionalized Boron Nitride Quantum Dots: Application to Vitamin C Sensing through Hybridization with Gold Electrodes. 2018 , 10, 28819-28827	35

538	One-Step Synthesis of Novel Photoluminescent Nitrogen-Rich Carbon Nanodots from Allylamine for Highly Sensitive and Selective Fluorescence Detection of Trinitrophenol and Fluorescent Ink. 2018 , 6, 11716-11723	23
537	Aptamer and IR820 Dual-Functionalized Carbon Dots for Targeted Cancer Therapy against Hypoxic Tumors Based on an 808 nm Laser-Triggered Three-Pathway Strategy. 2018 , 1, 1800041	15
536	One-pot synthesis of highly fluorescent amino-functionalized graphene quantum dots for effective detection of copper ions. 2018 , 18, 1255-1260	21
535	Facile synthesis and photophysics of graphene quantum dots. 2018 , 364, 671-678	9
534	Novel Synthesis of Slightly Fluorinated Graphene Quantum Dots with Luminescent and Paramagnetic Properties through Thermal Cutting of Fluorinated Graphene. 2018 , 11,	18
533	Recent Developments in Graphene/Polymer Nanocomposites for Application in Polymer Solar Cells. 2018 , 10,	76
532	Novel properties and applications of carbon nanodots. 2018 , 3, 565-597	188
531	Defect States Control Effective Band Gap and Photochemistry of Graphene Quantum Dots. 2018 , 10, 27195-27204	15
530	A rapid microwave synthesis of green-emissive carbon dots with solid-state fluorescence and pH-sensitive properties. 2018 , 5, 180245	33
529	Nitrogen-doped graphene and graphene quantum dots: A review on synthesis and applications in energy, sensors and environment. 2018 , 259, 44-64	196
528	Top or Bottom, Assembling Modules Determine the Photocatalytic Property of the Sheetlike Nanostructured Hybrid Photocatalyst Composed with Sn ₃ O ₄ and rGO (GQD). 2018 , 6, 11775-11782	26
527	Improved charge trapping properties by embedded graphene oxide quantum-dots for flash memory application. 2018 , 124, 1	4
526	Solar spectrum photocatalytic conversion of CO ₂ to CH ₄ utilizing TiO ₂ nanotube arrays embedded with graphene quantum dots. 2018 , 26, 70-79	54
525	Electrocatalytic activity of a push-pull phthalocyanine in the presence of reduced and amino functionalized graphene quantum dots towards the electrooxidation of hydrazine. 2018 , 820, 146-160	15
524	Highly stable and bio-compatible luminescent molybdenum disulfide quantum dots for imaging of alimentary canal in Drosophila. 2018 , 202, 111-117	10
523	A novel thiol-ene click reaction for preparation of graphene quantum dots and their potential for fluorescence imaging. 2018 , 91, 631-637	9
522	Facile Synthesis of Water-Soluble Graphene Quantum Dots/Graphene for Efficient Photodetector. 2018 , 3, 817-824	2
521	Solution electrochemical approach to functionalized graphene: History, progress and challenges. 2018 , 140, 41-56	28

520	The influence of combination mode on the structure and properties of graphene quantum dot-porphyrin composites. 2018 , 172, 207-212	11
519	Nanostructured Graphene Oxide Dots: Synthesis, Characterization, Photoinduced Electron Transfer Studies, and Detection of Explosives/Biomolecules. 2018 , 3, 9096-9104	15
518	Biomass-waste derived graphene quantum dots and their applications. 2018 , 140, 77-99	119
517	Controlled synthesis of blue luminescent graphene quantum dots from carbonized citric acid: Assessment of methodology, stability, and fluorescence in an aqueous environment. 2018 , 220, 11-22	29
516	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. 2018 , 119, 1-19	143
515	Diffusion of Solvent-Separated Ion Pairs Controls Back Electron Transfer Rate in Graphene Quantum Dots. 2018 , 122, 15819-15825	3
514	Simple voltammetric analyses of ochratoxin A in food samples using highly-stable and anti-fouling black phosphorene nanosensor. 2018 , 282, 490-498	36
513	Non-destructive modification on Nafion membrane via in-situ inserting of sheared graphene oxide for direct methanol fuel cell applications. 2018 , 282, 362-368	29
512	Hydrothermal green synthesis of magnetic FeO-carbon dots by lemon and grape fruit extracts and as a photoluminescence sensor for detecting of E. coli bacteria. 2018 , 203, 481-493	143
511	Bulk heterojunction photovoltaics with improved efficiencies using stem-leaf, shish-kebab and double-fibrillar nano-hybrids based on modified carbon nanotubes and poly(3-hexylthiophene). 2018 , 170, 138-150	18
510	Visible-light responsive Cr(VI) reduction by carbonyl modification Nb ₃ O ₇ (OH) nanoaggregates. 2018 , 53, 12065-12078	4
509	A solvent-free gaseous detonation approach for converting benzoic acid into graphene quantum dots within milliseconds. 2018 , 87, 233-241	8
508	Effect of boron and nitrogen doping on carrier relaxation dynamics of graphene quantum dots. 2018 , 5, 065034	7
507	Assembly of carbon nanodots in graphene-based composite for flexible electro-thermal heater with ultrahigh efficiency. 2019 , 12, 2498-2508	26
506	Graphene-based materials. 2019 , 41-56	
505	High Yield Controlled Synthesis of Nano-Graphene Oxide by Water Electrolytic Oxidation of Glassy Carbon for Metal-Free Catalysis. 2019 , 13, 9482-9490	14
504	A critical review on two-dimensional quantum dots (2D QDs): From synthesis toward applications in energy and optoelectronics. 2019 , 68, 100226	53
503	Controllable Fabrication, Photoluminescence Mechanism, and Novel Application of Green-Yellow-Orange Fluorescent Carbon-Based Nanodots. 2019 , 5, 5060-5071	4

502	Effects of graphene quantum dots interlayer on performance of ZnO-based photodetectors. 2019 , 493, 1187-1194	8
501	The Kinetics and Mechanisms for Photodegradation of Nitrated Polycyclic Aromatic Hydrocarbons on Lettuce Leaf Surfaces: An In Vivo Study. 2019 , 67, 8452-8458	5
500	Converting waste Allium sativum peel to nitrogen and sulphur co-doped photoluminescence carbon dots for solar conversion, cell labeling, and photobleaching diligences: A path from discarded waste to value-added products. 2019 , 197, 111545	42
499	Graphene Quantum Dots for Optical Bioimaging. 2019 , 15, e1902136	92
498	Electrogenerated chemiluminescence on smartphone with graphene quantum dots nanocomposites for Escherichia Coli detection. 2019 , 297, 126811	36
497	Highly fluorescent TiC MXene quantum dots for macrophage labeling and Cu ion sensing. 2019 , 11, 14123-14133	32
496	Black phosphorus quantum dot based all-optical signal processing: ultrafast optical switching and wavelength converting. 2019 , 30, 415202	19
495	Graphene quantum dot induced tunable growth of nanostructured MnCo ₂ O _{4.5} composites for high-performance supercapacitors. 2019 , 3, 2499-2508	29
494	Novel bimetallic Cu/Ni core-shell NPs and nitrogen doped GQDs composites applied in glucose in vitro detection. 2019 , 14, e0220005	3
493	Enhanced Charge Transport and Excited-State Charge-Transfer Dynamics in a Colloidal Mixture of CdTe and Graphene Quantum Dots. 2019 , 123, 20512-20521	8
492	Nitrogen and boron-incorporated carbon dots for the sequential sensing of ferric ions and ascorbic acid sensitively and selectively. 2019 , 171, 107752	15
491	Single-particle energy band and optical absorption spectra of multilayer graphene quantum dots. 2019 , 132, 106171	3
490	Quantum dots from microfluidics for nanomedical application. 2019 , 11, e1567	20
489	Preferential photochemical interaction of Ru (III) doped carbon nano dots with bovine serum albumin over human serum albumin. 2019 , 137, 483-494	10
488	Preparation and Specific Capacitance Properties of Sulfur, Nitrogen Co-Doped Graphene Quantum Dots. 2019 , 14, 219	24
487	Influence of Electron Acceptor and Electron Donor on the Photophysical Properties of Carbon Dots: A Comparative Investigation at the Bulk-State and Single-Particle Level. 2019 , 29, 1902466	30
486	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. 2019 , 6, 045021	5
485	Altering sub-cellular location for bioimaging by engineering the carbon based fluorescent nanoprobe. 2019 , 62, 1496-1504	4

484	Optimization of quantum yield of highly luminescent graphene oxide quantum dots and their application in resistive memory devices. 2019 , 34, 125016	4
483	Additive-Free Electrophoretic Deposition of Graphene Quantum Dots Thin Films. 2019 , 25, 16573	7
482	Novel conducting PVA/Carbon quantum dots (CQDs) nanocomposite for high anti-electromagnetic wave performance. 2019 , 810, 151940	34
481	Oral administration of hydroxylated-graphene quantum dots induces intestinal injury accompanying the loss of intestinal stem cells and proliferative progenitor cells. 2019 , 13, 1409-1421	17
480	A novel aspect of functionalized graphene quantum dots in cytotoxicity studies. 2019 , 61, 104649	16
479	Evolution and Synthesis of Carbon Dots: From Carbon Dots to Carbonized Polymer Dots. 2019 , 6, 1901316	349
478	Synthesis and optical properties of Zn(II) doped graphene quantum dots: Blue to purple emission. 2019 ,	5
477	Insulator to semiconductor transition in graphene quantum dots. 2019 ,	3
476	Excitons in Carbonic Nanostructures. 2019 , 5, 71	26
475	Graphene Quantum Dots: A New Member of the Graphene Family: Structure, Properties, and Biomedical Applications. 2019 , 267-299	
474	Graphene Quantum Dots Band Structure Tuned by Size for Efficient Organic Solar Cells. 2019 , 216, 1900657	6
473	Horizontally Aggregation of Monolayer Reduced Graphene Oxide Under Deep UV Irradiation in Solution. 2019 , 14, 117	8
472	Effect of initial precursor concentration on the spectral-luminescent characteristics and cytotoxicity of carbon nanoparticles. 2019 , 5, 025017	
471	Highly selective and sensitive detection of amaranth by using carbon dots-based nanosensor.. 2019 , 9, 26315-26320	13
470	Carbon Dots as an Effective Fluorescent Sensing Platform for Metal Ion Detection. 2019 , 14, 272	85
469	Porous FeO Modified by Nitrogen-Doped Carbon Quantum Dots/Reduced Graphene Oxide Composite Aerogel as a High-Capacity and High-Rate Anode Material for Alkaline Aqueous Batteries. 2019 , 11, 36970-36984	63
468	Carbon quantum dot-based composites for energy storage and electrocatalysis: Mechanism, applications and future prospects. 2019 , 66, 104093	95
467	Research performance and trends of fluorescent carbon nanoparticles: a science citation index expanded-based analysis. 2019 , 21, 1	4

466	The effect of carbon quantum dots on the electrocatalytic hydrogen evolution reaction of manganese-bickel phosphide nanosheets. 2019 , 7, 21488-21495	27
465	Size engineering optoelectronic features of C, Si and CSi hybrid diamond-shaped quantum dots.. 2019 , 9, 28609-28617	8
464	Development of Graphene Quantum Dots-Based Optical Sensor for Toxic Metal Ion Detection. 2019 , 19,	40
463	Dual Role of Graphene Quantum Dots in Active Layer of Inverted Bulk Heterojunction Organic Photovoltaic Devices. 2019 , 4, 16159-16165	11
462	Biodegradable blends of graphene quantum dots and thermoplastic starch with solid-state photoluminescent and conductive properties. 2019 , 139, 367-376	13
461	Variation of Optical Properties of Nitrogen-doped Graphene Quantum Dots with Short/Mid/Long-wave Ultraviolet for the Development of the UV Photodetector. 2019 , 11, 39035-39045	12
460	Rationally Engineered Nucleic Acid Architectures for Biosensing Applications. 2019 , 119, 11631-11717	114
459	Preparation of multicolored carbon quantum dots using HNO ₃ /HClO ₄ oxidation of graphitized carbon. 2019 , 34, 3428-3438	10
458	Nitrogen-doped carbon dots as fluorescence ON/OFF sensor for parallel detection of copper(II) and mercury(II) ions in solutions as well as in filter paper-based microfluidic device. 2019 , 1, 592-601	35
457	Mechanism insights into tunable photoluminescence of carbon dots by hydroxyl radicals. 2019 , 54, 6140-6150	16
456	Liquid flow-induced electricity in carbon nanomaterials. 2019 , 3, 599-610	15
455	Technical imprint of polymer nanocomposite comprising graphene quantum dot. 2019 , 58, 597-617	3
454	Visible-Light Driven TiO ₂ Photocatalyst Coated with Graphene Quantum Dots of Tunable Nitrogen Doping. 2019 , 24,	27
453	Preparing CdS QDs in sodium alginate gel: realizing water solubility and stimuli responsiveness of QDs in an integrative way. 2019 , 15, 2319-2327	4
452	Effects of carbon dots on ZnO nanoparticle-based dye-sensitized solar cells. 2019 , 303, 204-210	26
451	Optimizing oxygen functional groups in graphene quantum dots for improved antioxidant mechanism. 2019 , 21, 1336-1343	44
450	Double-emission mechanism of laser-induced HOPG-exfoliated Graphene Quantum Dots (GQDs). 2019 , 114, 022102	5
449	Enhancing electron transport via graphene quantum dot/SnO ₂ composites for efficient and durable flexible perovskite photovoltaics. 2019 , 7, 1878-1888	48

448	Carbon nanospheres with dual-color emission and their application in ratiometric pyrophosphate sensing. 2019 , 144, 550-558	11
447	Graphene Oxide: From Tunable Structures to Diverse Luminescence Behaviors. 2019 , 6, 1900855	47
446	Graphene and carbon nanotube-based solar cells. 2019 , 603-660	1
445	Separating graphene quantum dots by lateral size through gel column chromatography.. 2019 , 9, 18898-18901	3
444	Nitrogen-Doped Graphene Oxide Dots-Based "Turn-OFF" HO, Au(III), and "Turn-OFF-ON" Hg(II) Sensors as Logic Gates and Molecular Keypad Locks. 2019 , 4, 10702-10713	16
443	Highly efficient and ultra-narrow bandwidth orange emissive carbon dots for microcavity lasers. 2019 , 11, 11577-11583	39
442	Diethylenetriamine-Doped Graphene Oxide Quantum Dots with Tunable Photoluminescence for Optoelectronic Applications. 2019 , 2, 3925-3933	12
441	Future Perspectives and Review on Organic Carbon Dots in Electronic Applications. 2019 , 13, 6224-6255	149
440	Carbon dots for energy conversion applications. 2019 , 125, 220903	33
439	New free-standing and flexible PVA/Carbon quantum dots (CQDs) nanocomposite films with promising power factor and thermoelectric power applications. 2019 , 100, 245-254	29
438	Chlorine-Doped Graphene Quantum Dots with Enhanced Anti- and Pro-Oxidant Properties. 2019 , 11, 21822-21829	44
437	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. 2019 , 11, 11496-11504	50
436	Coal-Derived Graphene Quantum Dots Produced by Ultrasonic Physical Tailoring and Their Capacity for Cu(II) Detection. 2019 , 7, 9793-9799	37
435	Highly efficient and stable white LEDs based on pure red narrow bandwidth emission triangular carbon quantum dots for wide-color gamut backlight displays. 2019 , 12, 1669-1674	60
434	Electronic and optical properties of sulfur and nitrogen doped graphene quantum dots: A theoretical study. 2019 , 113, 130-136	12
433	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. 2019 , 1, 022001	66
432	Water-Soluble Graphene Quantum Dots as High-Performance Water-Based Lubricant Additive for Steel/Steel Contact. 2019 , 67, 1	21
431	Quantum Confinement Effect in the Absorption Spectra of Graphene Quantum Dots. 2019 , 4, 205-210	2

430	The Role of Reduced Graphene Oxide Concentration as Ablated Material on Optical Properties of Graphene Quantum Dots. 2019 , 948, 267-273	1
429	Efficient and scalable high-quality graphene nanodot fabrication through confined lattice plane electrochemical exfoliation. 2019 , 55, 5805-5808	22
428	Recent Advancements and New Perspectives of Nanomaterials. 2019 , 1-32	
427	Laser wavelength modulated pulsed laser ablation for selective and efficient production of graphene quantum dots.. 2019 , 9, 13658-13663	15
426	A high photoluminescence sensor for selective detection of cartap based on functionalized VBimBF4B ionic liquid-strengthened sulfur-doped carbon nanodots. 2019 , 43, 8873-8881	6
425	Density effects of graphene oxide quantum dots on characteristics of Zr0.5Hf0.5O2 film memristors. 2019 , 114, 162906	4
424	Unravelling the Aptamer-Analyte Interaction Dynamics through Fluorescence Quenching in Graphene Quantum Dots (GQDs) Based Homogeneous Assays. 2019 , 84, 420-426	8
423	Selective, Sensitive and Label-Free Detection of Fe Ion in Tap Water Using Highly Fluorescent Graphene Quantum Dots. 2019 , 29, 541-548	10
422	Design and fabrication of carbon dots for energy conversion and storage. 2019 , 48, 2315-2337	363
421	Preparation of nitrogen-doped carbon quantum dots and its application as a fluorescent probe for Cr(VI) ion detection. 2019 , 43, 5488-5494	9
420	Polymer/carbon-based quantum dot nanocomposite: forthcoming materials for technical application. 2019 , 56, 341-356	15
419	Nitrogen-doped graphene quantum dots: Optical properties modification and photovoltaic applications. 2019 , 12, 1041-1047	53
418	Recent advances in nanomaterial-based electrochemical and optical sensing platforms for microRNA assays. 2019 , 144, 2849-2866	54
417	Low-temperature titania-graphene quantum dots paste for flexible dye-sensitised solar cell applications. 2019 , 305, 278-284	24
416	B,N-Co-doped graphene quantum dots as fluorescence sensor for detection of Hg ²⁺ and F ⁻ ions. 2019 , 11, 1879-1883	26
415	Synthesis of N-Doped Micropore Carbon Quantum Dots with High Quantum Yield and Dual-Wavelength Photoluminescence Emission from Biomass for Cellular Imaging. 2019 , 9,	35
414	Facile synthesis of defect-rich nitrogen and sulfur Co-doped graphene quantum dots as metal-free electrocatalyst for the oxygen reduction reaction. 2019 , 792, 844-850	49
413	Correlation study of photoluminescence properties and mechanism of hydrogenated amorphous silicon carbide films. 2019 , 212, 38-44	4

412	Progress in microwave-assisted synthesis of quantum dots (graphene/carbon/semiconducting) for bioapplications: a review. 2019 , 12, 282-314	85
411	Highly Fluorescent Nitrogen-Doped Graphene Quantum Dots Synthesis and Their Applications as Fe(III) Ions Sensor. 2019 , 2019, 1-9	16
410	Two new mononuclear zinc(II) and cadmium(II) coordination polymers based on 4-(3-pyridyl)-2H-1,2,3-triazole: Syntheses, structures, theoretical and fluorescent properties. 2019 , 166, 44-51	4
409	2D-Organic Hybrid Heterostructures for Optoelectronic Applications. <i>Advanced Materials</i> , 2019 , 31, e1803831	46
408	Multiscale Graphene-Based Materials for Applications in Sodium Ion Batteries. 2019 , 9, 1803342	146
407	Green preparation of lattice phosphorus doped graphene quantum dots with tunable emission wavelength for bio-imaging. 2019 , 242, 156-159	20
406	A Practical Guide to Prepare and Synthetically Modify Graphene Quantum Dots. 2019 , 29, 1808740	53
405	Electrochemical synthesis of multicolor fluorescent N-doped graphene quantum dots as a ferric ion sensor and their application in bioimaging. 2019 , 7, 1494-1502	61
404	The influence of humic acid on U(VI) sequestration by calcium titanate. 2019 , 368, 598-605	15
403	Polyaniline-Derived Nitrogen-Doped Graphene Quantum Dots for the Ultratrace Level Electrochemical Detection of Trinitrophenol and the Effective Differentiation of Nitroaromatics: Structure Matters. 2019 , 7, 6732-6743	36
402	Scalable Production of Nanographene and Doping via Nondestructive Covalent Functionalization. 2019 , 15, e1805430	18
401	Infusion of graphene quantum dots to modulate thermal conductivity and dynamic mechanical properties of polymers. 2019 , 185, 121988	9
400	High-activity Mo, S co-doped carbon quantum dot nanozyme-based cascade colorimetric biosensor for sensitive detection of cholesterol. 2019 , 7, 7042-7051	49
399	Facile Synthesis of Sulfur Doped Graphene Quantum Dots for High Performance Supercapacitor Applications. 2019 , 202, 163-170	12
398	One-pot microwave-assisted green synthesis of amine-functionalized graphene quantum dots for high visible light photocatalytic application. 2019 , 22, 822-828	7
397	Synthesis of graphene quantum dots doped CdS composites for photoelectric properties. 2019 , 6, 125608	2
396	Synthesis and characterization of graphene quantum dots. 2019 , 5,	4
395	Antioxidant Activity of Graphene Quantum Dots Prepared in Different Electrolyte Environments. 2019 , 9,	7

394	A protocol for size separation of nanographenes.. 2019 , 9, 33843-33846	8
393	Graphene quantum dots-induced morphological changes in CuCo ₂ S ₄ nanocomposites for supercapacitor electrodes with enhanced performance. 2019 , 463, 498-503	24
392	Low-Dimensional Saturable Absorbers in the Visible Spectral Region. 2019 , 7, 1800886	36
391	Semiempirical study on the absorption spectra of the coronene-like molecular models of graphene quantum dots. 2019 , 207, 1-5	11
390	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO ₂ reduction. 2019 , 7, 430-454	87
389	Dy(III)-induced aggregation emission quenching effect of single-layered graphene quantum dots for selective detection of phosphate in the artificial wetlands. 2019 , 196, 100-108	14
388	Amino-Functionalized Graphene Quantum Dots as Cathode Interlayer for Efficient Organic Solar Cells: Quantum Dot Size on Interfacial Modification Ability and Photovoltaic Performance. 2019 , 6, 1801480	31
387	SnO ₂ -based electron transporting layer materials for perovskite solar cells: A review of recent progress. 2019 , 35, 144-167	83
386	Graphene quantum dots-based electrochemiluminescence detection of DNA using multiple cycling amplification strategy. 2019 , 194, 658-663	30
385	Macroscopic graphite felt containing palladium catalyst for liquid-phase hydrogenation of cinnamaldehyde. 2019 , 244, 128-139	11
384	Environmental effects on the charge transfer properties of Graphene quantum dot based interfaces. 2019 , 119, e25882	3
383	Separation of Spectroscopically Uniform Nanographenes. 2019 , 14, 1786-1791	7
382	State-of-the-Art and Trends in Synthesis, Properties, and Application of Quantum Dots-Based Nanomaterials. 2019 , 36, 1800302	16
381	Fluorescent Graphene Quantum Dots for the Determination of Metal Ions. 2019 , 215-239	
380	A fluorometric study on the effect of DNA methylation on DNA interaction with graphene quantum dots. 2019 , 7, 025001	16
379	Preparation and photoluminescence properties of graphene quantum dots by decomposition of graphene-encapsulated metal nanoparticles derived from Kraft lignin and transition metal salts. 2019 , 206, 403-411	18
378	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions. 2019 , 95, 72-77	18
377	Bio-inspired three-dimensional micro-nanoporous graphene for constructing Schottky junction and remarkably enhanced electrochemical detection. 2019 , 281, 245-252	2

376	Natural Biomass as Carbon Sources for the Synthesis of Photoluminescent Carbon Dots. 2019 , 109-134	2
375	Carbon Dots and Their Polymeric Nanocomposites. 2019 , 217-260	2
374	Water-Soluble and Low-Toxic Ionic Polymer Dots as Invisible Security Ink for MultiStage Information Encryption. 2019 , 11, 1480-1486	27
373	Role of reactive oxygen species in the visible light photocatalytic mineralization of rhodamine B dye by P25/carbon dot photocatalyst. 2019 , 163, 274-284	23
372	A facile synthesis of graphene nanoribbon-quantum dot hybrids and their application for composite electrolyte membrane in direct methanol fuel cells. 2019 , 297, 267-280	40
371	A ratiometric fluorescent and colorimetric dual-signal sensing platform based on N-doped carbon dots for selective and sensitive detection of copper(II) and pyrophosphate ion. 2019 , 283, 215-221	65
370	Selective sensing of curcumin using L-cysteine derived blue luminescent graphene quantum dots. 2019 , 110, 32-38	11
369	Synthesis and structural evolution of hydrogenated amorphous silicon carbide thin film with carbon nanostructures. 2019 , 503-504, 252-259	4
368	Dependence of characteristic interlayer vibration modes on interlayer spin arrangement in stacked graphene nanofragments. 2019 , 141, 339-347	2
367	Emissive carbon dots derived from natural liquid fuels and its biological sensing for copper ions. 2020 , 208, 120375	15
366	Highly biocompatible graphene quantum dots: green synthesis, toxicity comparison and fluorescence imaging. 2020 , 55, 1198-1215	31
365	Application of carbon dots in dye-sensitized solar cells: A review. 2020 , 137, 48443	43
364	Nitrogen-Functionalized Graphene Quantum Dots: A Versatile Platform for Integrated Optoelectronic Devices. 2020 , 20, 429-439	6
363	Research progress of graphene-based nanomaterials for the environmental remediation. 2020 , 31, 1462-1473	31
362	Biozymatic synergism of vanadium oxide nanodots to efficiently eradicate drug-resistant bacteria during wound healing in vivo. 2020 , 559, 313-323	35
361	Dual-colored carbon dots-based ratiometric fluorescent sensor for high-precision detection of alkaline phosphatase activity. 2020 , 208, 120460	15
360	Highly selective antenna effect of graphene quantum dots (GQDs): A new fluorescent sensitizer for rare earth element terbium in aqueous media. 2020 , 209, 120504	9
359	Fabrication of a ternary heterostructure BiVO ₄ quantum dots/C ₆₀ /g-C ₃ N ₄ photocatalyst with enhanced photocatalytic activity. 2020 , 136, 109164	113

358	A new colorimetric and fluorescent chemosensor based on thiazolyl-hydrazone for sensitive detection of copper ions. 2020 , 17, 609-614	2
357	Graphitic carbon nitride quantum dots as analytical probe for viewing sialic acid on the surface of cells and tissues. 2020 , 1095, 204-211	16
356	Biomass-derived nitrogen doped graphene quantum dots with color-tunable emission for sensing, fluorescence ink and multicolor cell imaging. 2020 , 227, 117671	28
355	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. 2020 , 185, 110612	5
354	Effects of localized surface plasmon resonance of Ag nanoparticles on luminescence of carbon dots with blue, green and yellow emission. 2020 , 502, 144277	11
353	Manipulation of 3D nanocarbon hybrids toward synthesis of N-doped graphene quantum dots with high photoluminescence quantum yield. 2020 , 219, 116827	5
352	Graphene quantum dots redefine nanobiomedicine. 2020 , 110, 110651	53
351	The key structural features governing the free radicals and catalytic activity of graphite/graphene oxide. 2020 , 22, 3112-3121	16
350	Bright tricolor ultrabroad-band emission carbon dots for white light-emitting diodes with a 96.5 high color rendering index. 2020 , 8, 1286-1291	19
349	Single-step synthesis of polychromatic carbon quantum dots for macroscopic detection of Hg. 2020 , 190, 110141	22
348	Carbon dots: a booming material for biomedical applications. 2020 , 4, 821-836	80
347	RAFT coupling chemistry: a general approach for post-functionalizing molecularly imprinted polymers synthesized by radical polymerization. 2020 , 11, 1055-1061	2
346	Novel carbon-based separation membranes composed of integrated zero- and one-dimensional nanomaterials. 2020 , 8, 1084-1090	10
345	Optical graphene quantum dots gas sensors: experimental study. 2020 , 7, 015608	12
344	The History of Nanoscience and Nanotechnology: From Chemical-Physical Applications to Nanomedicine. 2019 , 25,	322
343	Biosynthesized Quantum Dot for Facile and Ultrasensitive Electrochemical and Electrochemiluminescence Immunoassay. 2020 , 92, 1598-1604	22
342	A synthesis of graphene quantum dots/hollow TiO ₂ nanosphere composites for enhancing visible light photocatalytic activity. 2020 , 31, 1430-1441	8
341	Synergistic effect of nitrogen-doping and graphene quantum dot coupling for high-efficiency hydrogen production based on titanate nanotubes. 2020 , 31, 115705	4

340	Graphene quantum dots as the nucleation sites and interfacial regulator to suppress lithium dendrites for high-loading lithium-sulfur battery. 2020 , 68, 104373	61
339	From crude oil production nuisance to promising energy storage material: Development of high-performance asphaltene-derived supercapacitors. 2020 , 263, 116641	17
338	Bifunctional graphene oxide nanosheets for interfacially robust polymer actuators with instant solvent-induced self-folding. 2020 , 186, 122037	3
337	New polyvinyl alcohol/carbon quantum dots (PVA/CQDs) nanocomposite films: Structural, optical and catalysis properties. 2020 , 259, 116218	38
336	Cationically Modified Nanocrystalline Cellulose/Carboxyl-Functionalized Graphene Quantum Dots Nanocomposite Thin Film: Characterization and Potential Sensing Application. 2020 , 10, 875	8
335	A facial synthesis of nitrogen-doped reduced graphene oxide quantum dot and its application in aqueous organics degradation. 2020 ,	1
334	Zinc Oxide Sensitized Graphene Quantum Dots ZnO-GQDs A Hybrid Concept to Study Charge Transfer and its Catalytic Applicability to Synthesize Tetrasubstituted Propargylamines. 2020 , 9, 2162-2169	3
333	Synthesis of green fluorescent carbon dots from carbon nano-onions and graphene oxide.. 2020 , 10, 36404-36412	3
332	Fluorescent Carbon Dots Functionalized with Self-Assembled Glycan Monolayers for Probing Interactions across the Glyco-Interactome. 2020 , 3, 7804-7817	2
331	Metal-Free Carbon-Based Supercapacitors A Comprehensive Review. 2020 , 1, 410-438	11
330	Controlled Synthesis of Long-Wavelength Multicolor-Emitting Carbon Dots for Highly Efficient Tandem Luminescent Solar Concentrators. 2020 , 3, 12230-12237	10
329	A Review of Carbon Dots Produced from Biomass Wastes. 2020 , 10,	58
328	An Effort Towards Full Graphene Photodetectors. 2020 , 1	5
327	Fluorescent carbon dots are the new quantum dots: an overview of their potential in emerging technologies and nanosafety. 2020 , 55, 15074-15105	13
326	Graphene-based functional nanomaterials for biomedical and bioanalysis applications. 2020 , 23, 100184	43
325	Detecting Mercury (II) and Thiocyanate Using "Turn-on" Fluorescence of Graphene Quantum Dots. 2020 , 30, 1181-1187	10
324	Avenue to Large-Scale Production of Graphene Quantum Dots from High-Purity Graphene Sheets Using Laboratory-Grade Graphite Electrodes. 2020 , 5, 18831-18841	9
323	Self-powered photodetectors based on 0D/2D mixed dimensional heterojunction with black phosphorus quantum dots as hole accepters. 2020 , 20, 100765	25

322	Device Architecture for Visible and Near-Infrared Photodetectors Based on Two-Dimensional SnSe and MoS: A Review. 2020 , 11,	9
321	Highly luminescent polyethylene glycol-passivated graphene quantum dots for light emitting diodes.. 2020 , 10, 27418-27423	7
320	Emission States Variation of Single Graphene Quantum Dots. 2020 , 11, 7356-7362	4
319	Subpicosecond Charge Separation Time Scale at Graphene Quantum Dot Surface. 2020 , 124, 24115-24125	7
318	UV-Curable Polymer QD Flexible Films as the Downconversion Layer for Improved Performance of Cu(In,Ga)Se ₂ Solar Cells. 2020 , 34, 14581-14590	3
317	Graphene Quantum Dot-Sensitized ZnO-Nanorod/GaN-Nanotower Heterostructure-Based High-Performance UV Photodetectors. 2020 , 12, 47038-47047	34
316	Eco-Friendly Fluorescent Carbon Nanodots: Characteristics and Potential Applications. 2020 ,	2
315	Highly sensitive surface plasmon resonance optical detection of ferric ion using CTAB/hydroxylated graphene quantum dots thin film. 2020 , 128, 083105	17
314	Fundamental Understanding of the Formation Mechanism for Graphene Quantum Dots Fabricated by Pulsed Laser Fragmentation in Liquid: Experimental and Theoretical Insight. 2020 , 16, e2003538	6
313	Carbon Dots: A New Type of Carbon-Based Nanomaterial with Wide Applications. 2020 , 6, 2179-2195	226
312	A novel synthesis of graphene quantum dots via thermal treatment of crude graphite oxide in a dry and alkaline condition, and their application in uranyl detection. 2020 , 6, e04533	2
311	High yield synthesis of graphene quantum dots from biomass waste as a highly selective probe for Fe sensing. 2020 , 10, 21262	35
310	Graphene Quantum Dots for the Mobilization and Solubilization of Nonaqueous Phase Liquids in Natural Porous Media. 2020 , 3, 10691-10701	2
309	Carbon-Based Quantum Dots with Solid-State Photoluminescent: Mechanism, Implementation, and Application. 2020 , 16, e2004621	64
308	Integrating Mixed Metallic Selenides/Nitrogen-Doped Carbon Heterostructures in One-Dimensional Carbon Fibers for Efficient Oxygen Reduction Electrocatalysis. 2020 , 8, 8391-8401	11
307	Carbon dot-based composites for catalytic applications. 2020 , 22, 4034-4054	40
306	Spectroscopic Study of Ensemble and Individual Graphene Quantum Dots. 2020 , 124, 12112-12119	3
305	Direct Dual Z-Scheme Bi ₂ WO ₆ /GQDs/WO ₃ Inverse Opals for Enhanced Photocatalytic Activities under Visible Light. 2020 , 8, 7921-7927	27

304	Carbon quantum dots decorated on ZnO nanoparticles: An efficient visible-light responsive antibacterial agents. 2020 , 34, e5665	11
303	ZnO Nanosheets Modified with Graphene Quantum Dots and SnO ₂ Quantum Nanoparticles for Room-Temperature H ₂ S Sensing. 2020 , 3, 5220-5230	20
302	Bismuthene quantum dots based optical modulator for MIR lasers at 21 μ m. 2020 , 102, 109830	8
301	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. 2020 , 21,	36
300	Nanobiosensing with graphene and carbon quantum dots: Recent advances. 2020 , 39, 23-46	30
299	An Ultrafast Supercapacitor Based on 3D Ordered Porous Graphene Film with AC Line Filtering Performance. 2020 , 3, 5182-5189	6
298	Lignin-derived red-emitting carbon dots for colorimetric and sensitive fluorometric detection of water in organic solvents. 2020 , 12, 3218-3224	20
297	Acute and Subacute Toxicity Study of Graphene-Based Tumor Cell Nucleus-Targeting Fluorescent Nanoprobes. 2020 , 17, 2682-2690	5
296	Investigating the Properties of Cetyltrimethylammonium Bromide/Hydroxylated Graphene Quantum Dots Thin Film for Potential Optical Detection of Heavy Metal Ions. 2020 , 13,	11
295	Graphene quantum dot based materials for sensing, bio-imaging and energy storage applications: a review.. 2020 , 10, 23861-23898	92
294	A review on the superb contribution of carbon and graphene quantum dots to electrochemical capacitors performance: Synthesis and application. 2020 , 22, 100171	26
293	Tunable dual fluorescence emissions with high photoluminescence quantum yields modulated by Na ion dispersion method for purely solid state N-doped carbon dots. 2020 , 397, 112548	7
292	Low-dimensional carbon-based nanomaterials for energy conversion and storage applications. 2020 , 15-68	1
291	Recent Advances in Energy Conversion Applications of Carbon Dots: From Optoelectronic Devices to Electrocatalysis. 2020 , 16, e2001295	60
290	Graphene Quantum Dots-Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. 2020 , 10, 2001275	52
289	Exploration of the potential efficacy of natural resource-derived blue-emitting graphene quantum dots in cancer therapeutic applications. 2020 , 44, 5366-5376	14
288	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. 2020 , 113, 100665	37
287	Graphene-based nanomaterials for healthcare applications. 2020 , 45-81	6

286	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. 2020 , 120, 3941-4006	103
285	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. 2020 , 12, 19866-19873	18
284	Chemically Functionalized Two-Dimensional Carbon Materials. 2020 , 15, 2316-2328	10
283	Emerging energy and environmental application of graphene and their composites: a review. 2020 , 55, 7156-7183	17
282	Rapid hydrothermal method for the preparation of carbon quantum dots in the presence of hydrogen peroxide. 2020 , 15, 465-468	2
281	Optical and electrochemical tuning of hydrothermally synthesized nitrogen-doped carbon dots. 2020 , 2, 3375-3383	5
280	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. 2020 , 12, 100091	26
279	Catalytic performance of Cu(II)-supported graphene quantum dots modified NiFe ₂ O ₄ as a proficient nano-catalyst in the synthesis of 1,2,3-triazoles. 2020 , 151, 1153-1162	4
278	A Novel Route to High-Quality Graphene Quantum Dots by Hydrogen-Assisted Pyrolysis of Silicon Carbide. 2020 , 10,	9
277	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. 2020 , 13, 100196	18
276	Graphene Quantum Dots with High Yield and High Quality Synthesized from Low Cost Precursor of Aphanitic Graphite. 2020 , 10,	21
275	Electrochemistry in Carbon-based Quantum Dots. 2020 , 15, 1214-1224	16
274	Abnormal scaling of excitons in phosphorene quantum dots. 2020 , 22, 5723-5728	0
273	Optical properties of graphene quantum dots: the role of chiral symmetry. 2020 , 7, 025041	2
272	Three-dimensional network space Ag ₃ PO ₄ /NP-CQDs/rGH for enhanced organic pollutant photodegradation: Synergetic photocatalysis activity/stability and effect of real water quality parameters. 2020 , 390, 124454	35
271	Versatile, Aqueous Soluble CN Quantum Dots with Enriched Active Edges and Oxygenated Groups. 2020 , 142, 4621-4630	24
270	Hydroxyl edge-functionalized graphene quantum dots for gas-sensing applications. 2020 , 105, 107790	24
269	Integrating N and F co-doped TiO ₂ nanotubes with ZIF-8 as photoelectrode for enhanced photo-electrocatalytic degradation of sulfamethazine. 2020 , 388, 124388	71

268	Large-Scale Production of Nanocrystalline Black Phosphorus Ceramics. 2020 , 12, 7381-7391	13
267	Graphene quantum dots: efficient mechanosynthesis, white-light and broad linear excitation-dependent photoluminescence and growth inhibition of bladder cancer cells. 2020 , 49, 2308-2316	3
266	Electric field-assisted synthesis of Pt, carbon quantum dots-co-loaded graphene hybrid for hydrogen evolution reaction. 2020 , 451, 227770	15
265	Assembly of black phosphorus quantum dots-doped MOF and silver nanoclusters as a versatile enzyme-catalyzed biosensor for solution, flexible substrate and latent fingerprint visual detection of baicalin. 2020 , 152, 112012	38
264	Red-Emissive Carbon Quantum Dots for Nuclear Drug Delivery in Cancer Stem Cells. 2020 , 11, 1357-1363	58
263	Recent advances in crystalline carbon dots for superior application potential. 2020 , 1, 525-553	37
262	Investigation on the Relationship Between Carbon Cores and Fluorescence Moieties by Measurement of Fluorescence Anisotropy of CDs with Different Sizes. 2020 , 36, 894-900	
261	Graphene-based quantum dot emitters for light-emitting diodes. 2020 , 117-150	2
260	Electrochemical synthesis of graphene quantum dots from graphene oxide at room temperature and its soil moisture sensing properties. 2020 , 165, 9-17	43
259	Fabrication and characterization of graphene quantum dots thin film for reducing cross-sectional heat transfer through smart window. 2020 , 127, 110861	5
258	Electrochemiluminescence revealing that HNO ₃ -oxidized single-walled carbon nanotubes are essentially tubular graphene quantum dot-nanoassemblies. 2020 , 525, 146432	5
257	Excitation wavelength dependent emission of silver(I) complexes with a pyrimidine ligand. 2020 , 7, 2212-2223	9
256	Glowing photoluminescence in carbon-based nanodots: current state and future perspectives. 2020 , 55, 8769-8792	10
255	Graphene quantum dots synthesis and energy application: a review. 2021 , 31, 1-12	18
254	Graphene quantum dot reinforced hyperbranched polyamide proton exchange membrane for direct methanol fuel cell. 2021 , 46, 9782-9789	12
253	Investigation into the Catalytic Performance of Cu(II) Supported Graphene Quantum Dots Modified NiFe ₂ O ₄ as a Proficient Nano-Catalyst in the Synthesis of Propargylamines. 2021 , 151, 1444-1455	2
252	Current and future perspectives of carbon and graphene quantum dots: From synthesis to strategy for building optoelectronic and energy devices. 2021 , 135, 110391	52
251	Hollow molecularly imprinted microspheres made by w/o/w double Pickering emulsion polymerization stabilized by graphene oxide quantum dots targeted for determination of l-cysteine concentration. 2021 , 612, 125978	3

250	Controllable excitation-dependent fluorescence triggered by the increasing graphitic nitrogen in carbon dots and its application in multi-analyte detection. 2021 , 184, 108772	1
249	Accurate SERS monitoring of the plasmon mediated UV/visible/NIR photocatalytic and photothermal catalytic process involving Ag@carbon dots. 2021 , 13, 1006-1015	7
248	A Critical Review of Graphene Quantum Dots: Synthesis and Application in Biosensors. 2021 , 16, 2130001	6
247	Mitochondria-Specific Agents for Photodynamic Cancer Therapy: A Key Determinant to Boost the Efficacy. 2021 , 10, e2001240	14
246	Facile optical quantification of mercury ion concentration using graphene quantum dot coated filter paper disks. 2021 , 260, 124168	2
245	Recent Advance in Carbon Dots: From Properties to Applications. 2021 , 39, 1364-1388	7
244	Review of long wavelength luminescent carbon-based nanomaterials: preparation, biomedical application and future challenges. 2021 , 56, 2814-2837	2
243	Multifunctional N-doped graphene quantum dots towards tetracycline detection, temperature sensing and high-performance WLEDs. 2021 , 405, 112977	15
242	Recent advancements in synthesis and property control of graphene quantum dots for biomedical and optoelectronic applications. 2021 , 5, 627-658	22
241	Carbon and graphene quantum dots in fuel cell application: An overview. 2021 , 45, 1396-1424	21
240	Cu(II)-supported graphene quantum dots modified NiFe ₂ O ₄ : A green and efficient catalyst for the synthesis of 4H-pyrimido[2,1-b]benzothiazoles in water. 2021 , 68, 121-130	4
239	Dual-property blue and red emission carbon dots for Fe(III) ions detection and cellular imaging. 2021 , 40, 1957-1965	5
238	Solution-processed two-dimensional materials for next-generation photovoltaics. 2021 , 50, 11870-11965	21
237	Photophysical Dynamics in Semiconducting Graphene Quantum Dots Integrated with 2D MoS ₂ for Optical Enhancement in the Near UV. 2021 , 13, 5379-5389	23
236	Waste Plastic-Based Nanomaterials and Their Applications. 2021 , 781-803	
235	"Luminescent carbon nanodots: Current prospects on synthesis, properties and sensing applications". 2020 ,	5
234	Catalytic graphitization: A bottom-up approach to graphene and quantum dots derived therefrom □ A review. 2021 , 46, 3069-3074	0
233	A Review on Recent Advancements of Graphene and Graphene-Related Materials in Biological Applications. 2021 , 11, 614	24

232	Nanomaterials for Energy Harvesting and Storage. 2021 , 188-203	1
231	Study of carbon quantum dots as smart materials for environmental applications. 2021 , 223-239	
230	The Kuzbass Basin coals as a raw material for the preparation of carbon quantum dots. 2021 , 1749, 012046	
229	Graphene-Based Nanomaterials: Introduction, Structure, Synthesis, Characterization, and Properties. 2021 , 23-48	
228	(Bio)Sensing Materials: Quantum Dots. 2021 ,	1
227	Carbon-based SERS biosensor: from substrate design to sensing and bioapplication. 2021 , 13,	44
226	A supramolecular single-site photocatalyst based on multi-to-one Förster resonance energy transfer. 2021 , 57, 4174-4177	5
225	Synthesis, characterization, and applications of graphene quantum dots. 2021 , 247-297	
224	Green synthesis of graphene quantum dots and the dual application of graphene quantum dots-decorated flexible MSM p-type ZnO device as UV photodetector and piezotronic generator. 2021 , 44, 1	5
223	The Role of Carbon Quantum Dots in Organic Photovoltaics: A Short Overview. 2021 , 11, 232	12
222	Carbon/graphene quantum dot and conjugated polymer nanostructures impart unprecedented high efficiencies in routine P3HT:PCBM photovoltaics. 2021 , 215, 77-91	1
221	Polymer/quantum dot nanostructures in remarkably stabilized photovoltaics based on polymers having benzodithiophene/naphthothiadiazole constituents. 2021 , 45, 13284-13297	
220	Progress and challenges in understanding of photoluminescence properties of carbon dots based on theoretical computations. 2021 , 22, 100924	23
219	Pristine and holey graphene quantum dots: Optical properties using time independent and dependent density functional theory. 2021 , 128, 114602	3
218	Ultrafast Interfacial Electron Transfer from Graphene Quantum Dot to 2,4-Dinitrotoluene. 2021 , 125, 9638-9645	5
217	Electrochemical Trimming of Graphene Oxide Affords Graphene Quantum Dots for Fe ³⁺ Detection. 2021 , 4, 5220-5229	0
216	Core-shell Ag@nitrogen-doped carbon quantum dots modified BiVO ₄ nanosheets with enhanced photocatalytic performance under Vis-NIR light: Synergism of molecular oxygen activation and surface plasmon resonance. 2021 , 410, 128336	34
215	Carbon-based 0D/1D/2D assembly with desired structures and defect states as non-metal bifunctional electrocatalyst for zinc-air battery. 2021 , 588, 184-195	7

214	Enhancing the sensitivity of flexible acoustic wave ultraviolet photodetector with graphene-quantum-dots decorated ZnO nanowires. 2021 , 321, 112590	11
213	Research progress of surface-modified graphene-based materials for tribological applications. 2021 , 8, 042002	1
212	Constructing dense and hydrophilic forward osmosis membrane by cross-linking reaction of graphene quantum dots with monomers for enhanced selectivity and stability. 2021 , 589, 486-499	10
211	Synthesis and in vitro PDT evaluation of red emission polymer dots (R-CPDs) and pyropheophorbide-conjugates. 2021 , 11, 10013	3
210	Synthesis and physical characterization of magnetron sputtered Graphene-CdS bilayer. 2021 , 8, 055003	
209	Graphene Quantum Dots (GQDs) for Bioimaging and Drug Delivery Applications: A Review. 2021 , 3, 889-911	21
208	Applications of novel quantum dots derived from layered materials in cancer cell imaging. 2021 , 27, 100246	6
207	A label-free three potential ratiometric electrochemiluminescence immunosensor for cardiac troponin I based on N-(4-aminobutyl)-N-ethylisoluminol functionalized graphene quantum dots. 2021 , 334, 129628	4
206	Recent Progress in Electrochemical Detection of Human Papillomavirus (HPV) via Graphene-Based Nanosensors. 2021 , 2021, 1-15	3
205	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. 2021 , 497, 229881	2
204	Reduce and concentrate graphene quantum dot size via scissors: vacancy, pentagon-heptagon and interstitial defects in graphite by gamma rays. 2021 , 34,	
203	Hexagonal boron nitride quantum dots: Properties, preparation and applications. 2021 , 20, 100425	3
202	Graphene quantum dots-based heterogeneous catalysts. 2021 , 36, 449-467	2
201	Synthesis and Applications of Organic-Based Fluorescent Carbon Dots: Technical Review.	
200	Radiative Rate Modulation Reveals Near-Unity Quantum Yield of Graphene Quantum Dots. 2021 , 9, 2100314	1
199	Trifunctional Graphene Quantum Dot@LDH Integrated Nanoprobes for Visualization Therapy of Gastric Cancer. 2021 , 10, e2100512	1
198	3D Network of Sepia Melanin and N- and, S-Doped Graphitic Carbon Quantum Dots for Sustainable Electrochemical Capacitors. 2021 , 5, 2100152	0
197	A review on supramolecules/nanocomposites based on carbonic precursors and dielectric/conductive polymers and their applications. 2021 , 269, 115181	2

196	Electrochemical approach toward reduced graphene oxide-based electrodes for environmental applications: A review. 2021 , 778, 146301	11
195	ENHANCEMENT OF REDUCED GRAPHENE OXIDE BOLOMETRIC PHOTORESPONSE VIA ADDITION OF GRAPHENE QUANTUM DOTS. 2021 , 28, 2140011	1
194	An adequate avenue towards well-designed PBDT-DTNT:PCBM active layers via quantum dot/conductive polymer configurations. 2021 , 99, 431-442	
193	Synthesis of fluorescent graphene quantum dots from graphene oxide and their application in fabrication of GQDs@AgNPs nanohybrids and sensing of H ₂ O ₂ . 2021 , 47, 19063-19072	5
192	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. 2021 , 15, 14610-14617	9
191	Tuning photo-response and electronic behavior of graphene quantum dots synthesized via ion irradiation. 2021 , 613, 412978	3
190	Precise Blood Glucose Sensing by Nitrogen-Doped Graphene Quantum Dots for Tight Control of Diabetes. 2021 , 2021, 1-14	5
189	Glucose detection by gold modified carboxyl-functionalized graphene quantum dots-based surface plasmon resonance. 2021 , 239, 166779	7
188	Non-Coding RNA-Based Biosensors for Early Detection of Liver Cancer. 2021 , 9,	5
187	Reduction-based engineering of three-dimensional morphology of Ni-rGO nanocomposite. 2021 , 271, 115259	0
186	One-step Hydrothermal Synthesis of N-doped Fluorescent Carbon Dots from Fermented Rice with Highly Selective Characteristics for Label-free Detection of Fe Ions and as Fluorescent Ink. 2021 , 37, 1227-1234 ¹	
185	Synthesis, Applications, and Prospects of Graphene Quantum Dots: A Comprehensive Review. 2021 , e2102683	18
184	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. 2021 , 2, 031303	9
183	Influence of sulfur doping on the molecular fluorophore and synergistic effect for citric acid carbon dots*. 2021 , 30, 097802	0
182	Recent advances in the rational synthesis of red-emissive carbon dots for nanomedicine applications: A review. 2021 , 29, 100271	8
181	Highly selective fluorometric detection of para-nitrophenol from its isomers by nitrogen-doped graphene quantum dots. 2021 , 168, 106389	5
180	In situ simultaneous chemical activation and exfoliation of carbon quantum dots for atmospheric adsorption of H ₂ S and CO ₂ at room temperature. 2021 , 559, 149892	2
179	The applications of graphene oxide quantum dots in the removal of emerging pollutants in water: An overview. 2021 , 43, 102249	4

178	Preparation of twin graphene quantum dots through the electric-field-assisted femtosecond laser ablation of graphene dispersions. 2021 , 185, 384-394	3
177	Carbon dots based fluorescence methods for the detections of pesticides and veterinary drugs: Response mechanism, selectivity improvement and application. 2021 , 144, 116430	7
176	Carbon nanodot-hybridized silica nanospheres assisted immunoassay for sensitive detection of Escherichia coli. 2021 , 349, 130730	5
175	The use of polymer-graphene composites in fuel cell and solar energy. 2022 , 425-505	1
174	CHAPTER 1:Carbon Nanostructures: Drug Delivery and Beyond. 2021 , 1-38	2
173	Highly fluorescent nitrogen-doped graphene quantum dots (N-GQDs) as an efficient nanoprobe for imaging of microbial cells. 1-8	4
172	Phosphine-Based Porous Organic Polymer/rGO Aerogel Composites for High-Performance Asymmetric Supercapacitor. 2021 , 4, 828-838	18
171	Preparation of N/S doped carbon dots and their application in nitrite detection.. 2021 , 11, 10922-10928	8
170	Synthesis of carbon nanomaterials by chemical vapor deposition method using green chemistry principles 2021 , 273-314	2
169	Graphene: Synthesis, Properties and Application. 139-193	1
168	Graphene Quantum Dots Enhanced Photocatalytic Activity of Sb ₂ WO ₆ Under Ultraviolet- and Visible-Light Irradiation. 2020 , 41, 552-557	3
167	Progress in the Understanding and Applications of the Intrinsic Reactivity of Graphene-Based Materials. 2021 , 1, 2000026	28
166	Metal and Carbon Quantum Dot Photocatalysts for Water Purification. 2021 , 81-118	2
165	Synthesis, Characterization and Applications of Graphene Quantum Dots. 2017 , 65-120	2
164	Synthesis of kappa fiber modified graphite carbon nitride with outstanding photocatalytic phenol degradation ability. 2020 , 105, 107817	1
163	Enhanced photocatalytic activity of sulfur-doped graphene quantum dots decorated with TiO ₂ nanocomposites. 2018 , 97, 428-435	37
162	Chapter 1:Carbon-based Nanomaterials in Analytical Chemistry. 2018 , 1-36	5
161	Near infra-red photoluminescent graphene nanoparticles greatly expand their use in noninvasive biomedical imaging. 2013 , 49, 5079-81	90

160	Promotion effect of nitrogen-doped functional carbon nanodots on the early growth stage of plants. 2020 , 1,	3
159	Two-dimensional nanomaterials for Förster resonance energy transfer-based sensing applications. 2020 , 9, 1855-1875	7
158	Exponential growth of publications on carbon nanodots by Chinese authors. 2015 , 7, E201-5	9
157	Synthesis, Properties and Applications of Luminescent Carbon Dots. 2021 , 421-460	
156	Color-Tunable Fluorescent Nitrogen-doped Graphene Quantum Dots Derived from Pineapple Leaf Fiber Biomass to detect Hg ²⁺ . 2021 ,	4
155	The dichotomy of nanotechnology as the cutting edge of agriculture: Nano-farming as an asset versus nanotoxicity. 2021 , 288, 132533	8
154	One-Pot Synthesis of Bright Blue Luminescent N-Doped GQDs: Optical Properties and Cell Imaging. 2021 , 11,	3
153	Development of Graphene Quantum Dots by Valorizing the Bioresources: A Critical Review. 2021 , 6, 9990-10001	0
152	The impact of immersion time and thickness of TiO ₂ photoanode on power conversion efficiency of dye-sensitized solar cells using graphene quantum dots as photosensitizer. 2021 , 122, 111720	1
151	Ultra-stable dye-sensitized graphene quantum dot as a robust metal-free photocatalyst for hydrogen production. 2021 , 404, 273-282	2
150	Graphene and Quantum Dot Nanocomposites for Photovoltaic Devices. 2014 , 269-294	
149	High-Performance Polymer Solar Cells Containing Carbon Nanomaterials. 163-189	
148	Quantum Dot and Heterojunction Solar Cells Containing Carbon Nanomaterials. 237-266	
147	Bondonic Electrochemistry. 2017 , 277-359	
146	Bondonic Electrochemistry. 2017 , 328-411	1
145	First principle study of electronic structures and optical absorption properties of O and S doped graphite phase carbon nitride (g-C ₃ N ₄) ₆ quantum dots. 2017 , 66, 187102	2
144	Electrochemistry and Electrocatalysis of Hemoglobin Based on Graphene Quantum Dots Modified Electrode. 2020 , 16, 308-315	
143	Carbon Nanodots for Cell Imaging. 2020 , 49-75	0

142	The synthetic strategies, photoluminescence mechanisms and promising applications of carbon dots: Current state and future perspective. 2022 , 186, 91-127	26
141	CHAPTER 7: Synthesis and Applications of Graphene Quantum Dots. 2020 , 131-173	
140	Bioresource-Derived Graphene Quantum Dots: A Tale of Sustainable Materials and Their Applications. 2020 , 231-251	0
139	Sensing of Transition Metals by Top-Down Carbon Dots. 2021 , 11, 10360	1
138	Silicon Nanowire Arrays with Nitrogen-Doped Graphene Quantum Dots for Photodetectors.	0
137	Green preparation of carbon dots for Hg ²⁺ detection and cell imaging. 2020 , 10, 1777-1787	2
136	Recent progress in the development of carbon quantum dots for cell imaging. 2020 , 1,	1
135	Substrate-assisted Fermi level shifting of CVD graphene by swift heavy ions. 2022 , 28, 101625	0
134	Detection of Acetamiprid by Aptamer Based on a Porous Silicon Microcavity. 2022 , 14, 1-6	0
133	Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene quantum dots. 2022 , 578, 151919	1
132	Graphene Quantum Dots as Nucleants for Protein Crystallization.	2
131	Advances and Challenges of Fluorescent Nanomaterials for Synthesis and Biomedical Applications. 2021 , 16, 167	5
130	MXene-Based Materials for Solar Cell Applications.. 2021 , 11,	4
129	Biosynthesis of quantum dots and their usage in solar cells: insight from the novel researches. 2021 , 1	1
128	A Review of Nanomaterial Based Scintillators. 2021 , 14, 7701	3
127	Carbonaceous Nanomaterial-TiO ₂ Heterojunctions for Visible-Light-Driven Photocatalytic Degradation of Aqueous Organic Pollutants. 2021 , 118460	4
126	Luminescent Carbon Dots for Environmental Photocatalytic. 2022 , 201-228	
125	Photoactive graphene quantum dots/bacterial cellulose hydrogels: Structural, mechanical, and pro-oxidant study. 51996	0

124	Carbon dots: a novel platform for biomedical applications.	7
123	Three-dimensional flexible polyurethane decorated with Ni and reduced graphene oxide for high-sensitive sensing of glucose. 2022 , 278, 125679	0
122	Mixture deposition method for graphene quantum dots-based dye-sensitized solar cell. 2022 , 404, 139732	4
121	Mn, B, N Co-Doped Graphene Quantum Dots for Fluorescence Sensing and Biological Imaging.	
120	Preparation and structure tuning of graphene quantum dots for optical applications in chemosensing, biosensing, and bioimaging. 2022 , 41-77	
119	Quantum confinement and effective masses dependence in black phosphorus quantum dots and phosphorene. 2022 ,	
118	Violet phosphorus quantum dots. 2021 , 10, 245-250	4
117	Enhancing the Electron Transport, Quantum Yield, and Catalytic Performance of Carbonized Polymer Dots via Mn ₂ O ₃ Bridges.. 2022 , e2106863	0
116	Carbon-Dot-Enhanced Electrocatalytic Hydrogen Evolution.	9
115	Subpicosecond Hot Hole Transfer in a Graphene Quantum Dot Composite with High Efficiency.. 2022 , 13, 606-613	5
114	A fluorescence labelling and switchable nanosensor based on nitrogen-doped graphene quantum dots. 2022 , 45, 1	1
113	A high-performance PDMS-based triboelectric nanogenerator fabricated using surface-modified carbon nanotubes via pulsed laser ablation. 2022 , 10, 1299-1308	8
112	Graphene-based semiconductor nanocrystals for optoelectronics devices. 2022 , 383-406	
111	Tuning the properties of ZnS semiconductor by the addition of graphene. 2022 , 351-381	
110	Turn-off fluorescence of nitrogen and sulfur carbon quantum dots as effective fluorescent probes for determination of imatinib. Application to biological fluids.. 2022 , 272, 120954	1
109	A review on graphene quantum dots, an emerging luminescent carbon nanolights: Healthcare and Environmental applications. 2022 , 278, 115633	1
108	Graphene quantum dots: A contemporary perspective on scope, opportunities, and sustainability. 2022 , 157, 111993	6
107	In-plane electric and exchange fields engineered corner state bismuthene quantum dots. 2022 , 630, 413641	1

106	Application of Graphene-Related Materials in Organic Solar Cells.. 2022 , 15,	2
105	Applications of Carbon Dots for the Photocatalytic and Electrocatalytic Reduction of CO.. 2022 , 27,	3
104	Iron Single-Atom Catalysts Boost Photoelectrochemical Detection by Integrating Interfacial Oxygen Reduction and Enzyme-Mimicking Activity.. 2022 ,	7
103	Comparative analysis of characterization techniques of GQDs-based photovoltaic applications: A review. 2022 , 255, 168709	1
102	Fluorescent quantum dots from two-dimensional nanomaterials for in vitro and in vivo bioimaging. 2022 , 53, 420-424	
101	Identifying Molecular Fluorophore Impurities in the Synthesis of Low-Oxygen-Content, Carbon Nanodots Derived from Pyrene.	
100	Graphene: A Promising Theranostic Agent.. 2022 , 1351, 149-176	0
99	Utilization of N,S-Doped Carbon Dots as a Fluorescent Nanosensor for Determination of Cromolyn Based on Inner Filter Effect; Application to Aqueous Humor.. 2022 ,	1
98	Enhancing the Photodegradation Property of NO through the Construction of a SrTiO ₃ /GQDs/NH ₂ -UiO-66 Heterojunction. 2022 , 61, 3550-3560	1
97	Fluorescent Mechanism in Zero-Dimensional Carbon Nanomaterials: A Review.. 2022 , 1	1
96	Mn, B, N co-doped graphene quantum dots for fluorescence sensing and biological imaging. 2022 , 103856	2
95	Three-Dimensional MoS ₂ /Reduced Graphene Oxide Nanosheets/Graphene Quantum Dots Hybrids for High-Performance Room-Temperature NO Gas Sensors.. 2022 , 12,	0
94	Polymer Composites with Quantum Dots as Potential Electrode Materials for Supercapacitors Application: A Review.. 2022 , 14,	3
93	Formation of black phosphorus quantum dots via shock-induced phase transformation. 2022 , 120, 141902	1
92	A Heterostructured Graphene Quantum Dots/EGaO Solar-Blind Photodetector with Enhanced Photoresponsivity.. 2022 ,	3
91	Electronic and optical properties of Janus black arsenic-phosphorus AsP quantum dots under magnetic field.. 2022 ,	0
90	Sensitive detection of trace level Cd (II) triggered by chelation enhanced fluorescence (CHEF) "turn on": Nitrogen-doped graphene quantum dots (N-GQDs) as fluorometric paper-based sensor.. 2022 , 242, 123305	3
89	Synthesis of TiO ₂ nanosheets/graphene quantum dots and its application for detection of hydrogen peroxide by photoluminescence spectroscopy. 2022 , 5, 100103	0

88	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. 2022 , 12, 2103426	13
87	Preparation of yellow emissive nitrogen-doped carbon dots from o-phenylenediamine and their applications in curcumin sensing.	1
86	Recent progress of quantum dots for energy storage applications. 2022 , 1, 1	8
85	Graphene quantum dots and CuS microflowers anchored rGO composite counter electrode for the enhanced performance of quantum dot sensitized solar cells. 2022 , 125, 109033	2
84	Co-production of carbon quantum dots and biofuels via hydrothermal conversion of biomass. 2022 , 232, 107276	0
83	Carbon nanomaterial-based sensors: An efficient tool in the environmental sectors. 2022 , 149-165	
82	Recent Advances in K-SPR Sensors for the Detection of Biomolecules and Microorganisms: A Review. 2022 , 1-1	3
81	Spectral and Structural Properties of Luminescent Carbon Nanoparticles Obtained by Electrolysis of an Alcoholic NaOH Solution. 2022 , 77, 48-52	
80	The Role of N and S Doping on Photoluminescent Characteristics of Carbon Dots from Palm Bunches for Fluorimetric Sensing of Fe Ion.. 2022 , 23,	3
79	Stability ascent in perovskite solar cells employing star poly(3-hexylthiophene)/quantum dot nanostructures. 2022 , 106547	
78	Recent Progress on Carbon Quantum Dots Based Photocatalysis.. 2022 , 10, 881495	2
77	Facile and Green Synthesis of Carbon Nanodots from Environmental Pollutant for Cell Imaging and Fe ³⁺ detection.	1
76	High performance enhancement-mode thin-film transistor with graphene quantum dot-decorated In ₂ O ₃ channel layers. 2022 , 12, 14986-14997	
75	A glassy carbon electrode modified with N-TiO ₂ @AgNPs@GQDs for electrochemical determination of dopamine. 2022 , 109120	1
74	Fluorescent carbon quantum dots as a novel solution and paper strip-based dual sensor for the selective detection of Cr(VI) ions. 2022 , 109138	0
73	Tunable ultraviolet to deep blue light emission from sulfur nanodots fabricated by a controllable fission-aggregation strategy.	0
72	Comprehensive step-by-step procedure to setup a molecular communication through liquid experiment. 2022 , 9, 101736	
71	Highly sensitive and selective detection of dopamine with boron and sulfur co-doped graphene quantum dots. 2022 , 12,	0

70	Application of sulfur and nitrogen doped carbon quantum dots as sensitive fluorescent nanosensors for the determination of saxagliptin and gliclazide. 2022 , 9,	3
69	Oxygen-regulated carbon quantum dots as efficient metal-free electrocatalyst for nitrogen reduction.	0
68	Photocatalytic upcycling of poly(ethylene terephthalate) plastic to high-value chemicals. 2022 , 316, 121662	3
67	One-dimensional excitons in long phosphorene atomic chains. 2022 , 105,	0
66	Unravelling the Surface-State Assisted Ultrafast Charge Transfer Dynamics of Graphene Quantum Dot-Based Nanohybrids via Transient Absorption Spectroscopy. 2022 , 126, 11182-11192	0
65	Recent Advances in Inflammatory Diagnosis with Graphene Quantum Dots Enhanced SERS Detection. 2022 , 12, 461	3
64	Recent Progress in Carbon Dots-Based Materials for Electrochemical Energy Storage Toward Environmental Sustainability. 2200062	2
63	Supramolecular Gel Lubricants with Excellent Lubricity and Load-Carrying Performances Act Synergistically via Two Layers of Tribofilm. 2200683	2
62	Synthesis of Luminescent Graphene Quantum Dots from Biomass Waste Materials for Energy Related Applications An Overview.	1
61	Fast and sensitive recognition of enantiomers by electrochemical chiral analysis: Recent advances and future perspectives. 2022 , 471, 214732	1
60	Smart Nanotextiles for Controlled and Targeted Drug Release. 2022 , 135-158	
59	Roles of amorphous and crystalline regions in determining the optical and electronic properties of donor:acceptor systems comprising poly(3-hexylthiophene) embedded with nitrogen/sulfur-doped graphene quantum dots.	2
58	Facile synthesis CQDs/SnO ₂ -x/BiOI heterojunction photocatalyst to effectively degrade pollutants and antibacterial under LED light. 2022 , 236, 112566	1
57	Acid treatment to tune the optical properties of carbon quantum dots. 2022 , 605, 154690	0
56	Carbon dots-based electrochemical sensors. 2023 , 109-136	0
55	Toward highly reversible aqueous zinc-ion batteries: nanoscale-regulated zinc nucleation via graphene quantum dots functionalized with multiple functional groups. 2023 , 452, 139090	2
54	Preparation and application of chitosan-based fluorescent probes.	1
53	Graphene Quantum Dots with Blue and Yellow Luminescence Fabricated by Modulating Intercalation State. 2022 , 15, 6567	0

52	Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules. 2022 , 23, 10838	3
51	Synthesis, optical, dielectric, and magneto-dielectric properties of graphene quantum dots (GQDs).	0
50	Nanocomposites of Carbon Quantum Dots and Graphene Quantum Dots: Environmental Applications as Sensors. 2022 , 10, 367	1
49	Progress in preparation, characterization, surface functional modification of graphene oxide: A review. 2022 , 101560	0
48	Tuning the properties of graphene quantum dots by passivation. 2022 , 24, 26232-26240	0
47	Fe doped carbonized polymer dots based fluorescent sensor with Turn-on property for hydrazine hydrate detection.	0
46	Synthesis of MnCoO/CNT nanoflakes for the photocatalytic degradation of methyl orange dye and the evaluation of their activity against Culex pipiens larvae in the purification of fresh water. 2022 , 12, 29048-29062	1
45	Potential Development of N-Doped Carbon Dots and Metal-Oxide Carbon Dot Composites for Chemical and Biosensing. 2022 , 12, 3434	1
44	Eco-Friendly Sustainable Synthesis of Graphene Quantum Dots from Biowaste as a Highly Selective Sensor. 2022 , 12, 3696	0
43	Reduced Graphene Oxide Quantum Dot Light Emitting Diodes Fabricated Using an Ultraviolet Light Emitting Diode Photolithography Technique. 2022 , 14, 48976-48985	0
42	PEI N-doped graphene quantum dots/p-type silicon Schottky diode. 2022 , 36, 100436	1
41	Plasmon-enhanced bulk charge separation via morphological and interfacial engineering in Au@carbon dots@CdS hybrid. 2023 , 453, 139970	2
40	Bioresource-Functionalized Quantum Dots for Energy Generation and Storage: Recent Advances and Feature Perspective. 2022 , 12, 3905	1
39	Controlled synthesis and superior UV-Visible photocatalytic activity of carbon quantum dots encapsulated silica. 2022 , 100972	0
38	Solution processed highly transparent nitrogen-doped carbon quantum dots/ZnO hybrid thin films: A study on structural and enhanced UV emission. 2023 , 611, 155664	0
37	Synthesis, Characterization and Applications of Plain and Non-Metal Doped, Biomass-Derived Carbon Quantum Dots: A Short Review. 2022 , 34, 3048-3058	0
36	Facile synthesis of graphene quantum dots/ZSM-5 type metalosilicate composites and evaluating their performance in photocatalytic degradation of methylene blue and electrochemical water splitting. 2023 , 34, 103892	0
35	Electron transport of chemically treated graphene quantum dots-based dye-sensitized solar cells. 2023 , 439, 141667	0

- 34 Facile and scalable synthesis of un-doped, doped and co-doped graphene quantum dots: a comparative study on their impact for environmental applications. **2022**, 13, 701-719 ○
- 33 Polyindole-Derived Nitrogen-Doped Graphene Quantum Dots-Based Electrochemical Sensor for Dopamine Detection. **2022**, 12, 1063 ○
- 32 Graphene Quantum Dot-Enabled Nanocomposites as Luminescence- and Surface-Enhanced Raman Scattering Biosensors. **2022**, 10, 498 ○
- 31 Biomass-Based Carbon Dots for Fe³⁺ and Adenosine Triphosphate Detection in Mitochondria. ○
- 30 Dye Degradation and Sulfur Oxidation of Methyl Orange and Thiophenol via Newly Designed Nanocomposite GQDs / NiSe-NiO Photocatalyst Under Homemade LED Light. ○
- 29 Functionalization of Graphene Derivatives with Conducting Polymers and Their Applications in Uric Acid Detection. **2023**, 28, 135 ○
- 28 Highly Selective Nitrogen-Doped Graphene Quantum Dots/Eriochrome Cyanine Composite Photocatalyst for NADH Regeneration and Coupling of Benzylamine in Aerobic Condition under Solar Light. **2023**, 13, 199 ○
- 27 Electrochemical Synthesis of Carbon Quantum Dots. ○
- 26 Electro-deposited nano-Ni/reduced graphene oxide composite film of corrugated surface for high voltammetric sensitivity. **2023**, 297, 127288 ○
- 25 Sustainable Preparation of Graphene Quantum Dots for Metal Ion Sensing Application. **2023**, 13, 148 ○
- 24 Electronic applications of carbon nano-dots. **2023**, 227-247 ○
- 23 Rapid microwave-assisted synthesis of nitrogen-doped carbon quantum dots as fluorescent nanosensors for the spectrofluorimetric determination of palbociclib: application for cellular imaging and selective probing in living cancer cells. **2023**, 13, 4156-4167 1
- 22 Preparation, characterization, and applications of graphene-based quantum dots (GQDs). **2023**, 21-69 ○
- 21 Emerging Trends of Carbon-Based Quantum Dots: Nanoarchitectonics and Applications. 2207181 ○
- 20 Photoheating Effects of CuS@PEI_GQDs Nanoshells under Near-Infrared Laser and Sunlight Irradiation. ○
- 19 Eco-Friendly and Sustainable Pathways to Photoluminescent Carbon Quantum Dots (CQDs). **2023**, 13, 554 ○
- 18 Solid-Phase Pyrolysis Synthesis of Highly Fluorescent Nitrogen/Sulfur Codoped Graphene Quantum Dots for Selective and Sensitive Diversity Detection of Cr(VI). **2023**, 39, 1538-1547 ○
- 17 Polyethylenimine-functionalized nitrogen and sulfur co-doped carbon dots as effective fluorescent probes for detection of Hg²⁺ ions. **2023**, 292, 122395 ○

- 16 Graphene quantum dots for clean energy solutions. **2023**, 183-209 ○
- 15 Graphene quantum dots and their role in environmental sustainability. **2023**, 227-249 ○
- 14 Synthesis and Characterization of Carbon-Based Quantum Dot From Rice, Sugar, and Aloe-Vera. **2023**, 321-335 ○
- 13 Rapid and sensitive fluorescence determination of oxytocin using nitrogen-doped carbon dots as fluorophores. **2023**, 229, 115344 ○
- 12 First-principles studies the optical properties of defective-GQDs and -fullerene. **2023**, 35, e00793 ○
- 11 Three birds, one stone: Disinfecting and turning waste medical masks into valuable carbon dots for sodium hydrosulfite and Fe³⁺ detection enabled by a simple hydrothermal treatment. **2023**, 296, 122659 ○
- 10 Carbon dots as robust class of sustainable and environment friendlier nano/optical sensors for pesticide recognition from wastewater. **2023**, 160, 116957 ○
- 9 Fluorescent detection of emerging virus based on nanoparticles: From synthesis to application. **2023**, 161, 116999 ○
- 8 Enhanced charge extraction for all-inorganic perovskite solar cells by graphene oxide quantum dots modified TiO₂ layer. ○
- 7 Graphene quantum dots: A comprehensive overview. **2023**, 21, ○
- 6 Recent Advancement of Luminescent Graphene Quantum Dots for Energy-Related Applications. **2023**, 147-164 ○
- 5 X-ray radiation shielding and microscopic studies of flexible and moldable bandage by in situ synthesized cerium oxide nanoparticles/MWCNTS nanocomposite for healthcare applications. **2023**, 13, 8594-8605 ○
- 4 Computational nanoscience and technology. **2023**, 12, 100147 ○
- 3 Lights and Dots toward Therapy Carbon-Based Quantum Dots as New Agents for Photodynamic Therapy. **2023**, 15, 1170 ○
- 2 Confined and mediated intercalation of nanoparticles in graphene oxide membrane to fine-tune desalination performance. **2023**, 465, 143005 ○
- 1 Carbon Nanomaterials-Based Drug Delivery Systems: Synthesis, DFT Drug Interactions, and Cancer Therapy. **2023**, 689-727 ○