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Graphene quantum dots derived from carbon fibers

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1899	Artifacts and Errors Associated with the Ubiquitous Presence of Fluorescent Impurities in Carbon Nanodots.		
1898	Size-dependent radiative decay processes in graphene quantum dots. <b>2012</b> , 101, 163103		24
1897	Uniform graphene quantum dots patterned from self-assembled silica nanodots. <i>Nano Letters</i> , <b>2012</b> , 12, 6078-83	11.5	165
1896	Linear and nonlinear optical properties of modified graphene-based materials. <b>2012</b> , 37, 1283-1289		22
1895	Facile synthesis of water-soluble, highly fluorescent graphene quantum dots as a robust biological label for stem cells. <b>2012</b> , 22, 7461		581
1894	Reply to comment on Bne-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black 2012, 22, 21777		7
1893	High throughput theory and simulation of nanomaterials: exploring the stability and electronic properties of nanographene. <b>2012</b> , 22, 18119		20
1892	Hierarchically porous germanium-modified carbon materials with enhanced lithium storage performance. <b>2012</b> , 4, 7469-74		64
1891	Anomalous behaviors of visible luminescence from graphene quantum dots: interplay between size and shape. <b>2012</b> , 6, 8203-8		469
1890	Unusual emission transformation of graphene quantum dots induced by self-assembled aggregation. <b>2012</b> , 48, 7637-9		124
1889	Photoluminescent Nanostructures from Graphite Oxidation. <b>2012</b> , 116, 20015-20022		37
1888	Graphene quantum dots: an emerging material for energy-related applications and beyond. <b>2012</b> , 5, 8869		698
1887	Electrochemical preparation of luminescent graphene quantum dots from multiwalled carbon nanotubes. <b>2012</b> , 18, 12522-8		278

#### (2012-2012)

1886	Facile synthesis of highly emissive carbon dots from pyrolysis of glycerol; gram scale production of carbon dots/mSiO2 for cell imaging and drug release. <b>2012</b> , 22, 14403	283
1885	Quantum dots-based immunofluorescent microfluidic chip for the analysis of glycan expression at single-cells. <b>2012</b> , 84, 10097-104	22
1884	Carbon nanodots: synthesis, properties and applications. <b>2012</b> , 22, 24230	2021
1883	Creating high yield water soluble luminescent graphene quantum dots via exfoliating and disintegrating carbon nanotubes and graphite flakes. <b>2012</b> , 48, 10177-9	329
1882	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. <b>2012</b> , 112, 6156-214	3041
1881	Luminescent graphene quantum dots from oxidized multi-walled carbon nanotubes. <b>2012</b> , 137, 12-16	42
1880	The origin of fluorescence from graphene oxide. <b>2012</b> , 2, 792	468
1879	Near-infrared enhanced carbon nanodots by thermally assisted growth. <b>2012</b> , 101, 163107	29
1878	Photoconductive enhancement effects of graphene quantum dots on ZnO nanoparticle photodetectors. <b>2012</b> ,	6
1877	Control the size and surface chemistry of graphene for the rising fluorescent materials. <b>2012</b> , 48, 4527-39	356
1876	Graphene-quantum-dot assembled nanotubes: a new platform for efficient Raman enhancement. <b>2012</b> , 6, 2237-44	149
1875	Simple one-step synthesis of highly luminescent carbon dots from orange juice: application as excellent bio-imaging agents. <b>2012</b> , 48, 8835-7	1229
1874	A Facile Microwave Avenue to Electrochemiluminescent Two-Color Graphene Quantum Dots. <b>2012</b> , 22, 2971-2979	670
1873	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Up-Conversion Bioimaging Applications. <b>2012</b> , 22, 4732-4740	900
1872	Binary and ternary atomic layers built from carbon, boron, and nitrogen. <b>2012</b> , 24, 4878-95	197
1871	Optically tunable amino-functionalized graphene quantum dots. <b>2012</b> , 24, 5333-8	66 <del>7</del>
1870	Tunable Photoluminescence from Graphene Oxide. <b>2012</b> , 124, 6766-6770	28
1869	Tunable photoluminescence from graphene oxide. <b>2012</b> , 51, 6662-6	520

1868	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <b>2012</b> , 6, 5102-10	1323
1867	Blue luminescent graphene quantum dots and graphene oxide prepared by tuning the carbonization degree of citric acid. <b>2012</b> , 50, 4738-4743	1265
1866	Synthesis of blue light-emitting graphene quantum dots and their application in flexible nonvolatile memory. <b>2013</b> , 14, 1447-1451	47
1865	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <b>2013</b> , 7, 732-738	447
1864	Blue and green luminescence of reduced graphene oxide quantum dots. <b>2013</b> , 63, 537-546	58
1863	Size-Dependent Structural and Optical Characteristics of Glucose-Derived Graphene Quantum Dots. <b>2013</b> , 30, 523-531	136
1862	Luminescent graphene quantum dots fabricated by pulsed laser synthesis. <b>2013</b> , 64, 341-350	108
1861	The electrochemical applications of quantum dots. <b>2013</b> , 138, 5855-65	44
1860	In vivo biodistribution and toxicology of carboxylated graphene quantum dots. <b>2013</b> , 7, 6858-67	399
1859	Surface coating of graphene quantum dots using mussel-inspired polydopamine for biomedical optical imaging. <b>2013</b> , 5, 8246-53	111
1858	Energy-level structure of nitrogen-doped graphene quantum dots. <b>2013</b> , 1, 4908	222
1857	Graphitized carbon dots emitting strong green photoluminescence. <b>2013</b> , 1, 4902	61
1856	Fluorinated graphene oxide; a new multimodal material for biological applications. 2013, 25, 5632-7	140
1855	Direct production of graphene nanosheets for near infrared photoacoustic imaging. <b>2013</b> , 7, 8147-57	85
1854	Boronic acid functionalized graphene quantum dots as a fluorescent probe for selective and sensitive glucose determination in microdialysate. <b>2013</b> , 49, 9830-2	160
1853	Surface functionalization of graphene quantum dots with small organic molecules from photoluminescence modulation to bioimaging applications: an experimental and theoretical investigation. <b>2013</b> , 3, 14571	156
1852	Green synthesis of carbon dots with down- and up-conversion fluorescent properties for sensitive detection of hypochlorite with a dual-readout assay. <b>2013</b> , 138, 6551-7	201
1851	Novel fluorescent carbonic nanomaterials for sensing and imaging. <b>2013</b> , 1, 042001	111

## (2013-2013)

1850	Carbon nanoparticle-based fluorescent bioimaging probes. <b>2013</b> , 3, 1473	551
1849	Stabilization of graphene quantum dots (GQDs) by encapsulation inside zeolitic imidazolate framework nanocrystals for photoluminescence tuning. <b>2013</b> , 5, 10556-61	97
1848	Fabrication of graphene quantum dots via size-selective precipitation and their application in upconversion-based DSSCs. <b>2013</b> , 49, 9995-7	80
1847	Superior Micro-Supercapacitors Based on Graphene Quantum Dots. <b>2013</b> , 23, 4111-4122	490
1846	Photovoltaic properties of graphene nanodisk-integrated polymer composites. <b>2013</b> , 55, 548-557	20
1845	The electron-transfer based interaction between transition metal ions and photoluminescent graphene quantum dots (GQDs): a platform for metal ion sensing. <b>2013</b> , 117, 152-7	94
1844	Highly luminescent S, N co-doped graphene quantum dots with broad visible absorption bands for visible light photocatalysts. <b>2013</b> , 5, 12272-7	838
1843	Multicolour light emission from chlorine-doped graphene quantum dots. <b>2013</b> , 1, 7308	129
1842	Modulation and effects of surface groups on photoluminescence and photocatalytic activity of carbon dots. <b>2013</b> , 5, 11665-71	141
1841	Structural Stability, Electronic, Magnetic, and Optical Properties of Rectangular Graphene and Boron Nitride Quantum Dots: Effects of Size, Substitution, and Electric Field. <b>2013</b> , 117, 23295-23304	41
1840	Single-particle spectroscopic measurements of fluorescent graphene quantum dots. <b>2013</b> , 7, 10654-61	116
1839	One-Pot Synthesis of Fluorescent Carbon Dots from Orange Waste Peels. <b>2013</b> , 52, 15673-15678	306
1838	Coal as an abundant source of graphene quantum dots. <b>2013</b> , 4, 2943	556
1837	Graphene quantum dots as the hole transport layer material for high-performance organic solar cells. <b>2013</b> , 15, 18973-8	99
1836	Hair fiber as a precursor for synthesizing of sulfur- and nitrogen-co-doped carbon dots with tunable luminescence properties. <b>2013</b> , 64, 424-434	601
1835	Ecofriendly Route for the Synthesis of Highly Conductive Graphene Using Extremophiles for Green Electronics and Bioscience. <b>2013</b> , 30, 573-578	21
1834	Nearly monodisperse graphene quantum dots fabricated by amine-assisted cutting and ultrafiltration. <b>2013</b> , 5, 12098-103	57
1833	UV-assisted production of ferromagnetic graphitic quantum dots from graphite. <b>2013</b> , 57, 346-356	25

1832	Graphene-based nanomaterials for nanobiotechnology and biomedical applications. 2013, 8, 1669-88	86
1831	Etching single-wall carbon nanotubes into green and yellow single-layer graphene quantum dots. <b>2013</b> , 64, 245-251	96
1830	Using graphene quantum dots as photoluminescent probes for protein kinase sensing. <b>2013</b> , 85, 9148-55	148
1829	One-pot green synthesis of nitrogen-doped carbon nanoparticles as fluorescent probes for mercury ions. <b>2013</b> , 3, 21691	226
1828	A review of optical imaging and therapy using nanosized graphene and graphene oxide. <b>2013</b> , 34, 9519-34	137
1827	Evidence for Edge-State Photoluminescence in Graphene Quantum Dots. 2013, 23, 5062-5065	100
1826	Target delivery and cell imaging using hyaluronic acid-functionalized graphene quantum dots. <b>2013</b> , 10, 3736-44	178
1825	Boosting supercapacitor performance of carbon fibres using electrochemically reduced graphene oxide additives. <b>2013</b> , 15, 19550-6	69
1824	Focusing on luminescent graphene quantum dots: current status and future perspectives. <b>2013</b> , 5, 4015-39	1120
1823	Quantum dot cytotoxicity and ways to reduce it. <b>2013</b> , 46, 672-80	243
1823 1822	Quantum dot cytotoxicity and ways to reduce it. <b>2013</b> , 46, 672-80  Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. <b>2013</b> , 7, 1239-45	243 624
	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of	
1822	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. <b>2013</b> , 7, 1239-45  Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of	624
1822 1821 1820	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. 2013, 7, 1239-45  Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of zigzag/armchair edges. 2013, 15, 803-6	624
1822 1821 1820	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. 2013, 7, 1239-45  Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of zigzag/armchair edges. 2013, 15, 803-6  Semiconducting graphene: converting graphene from semimetal to semiconductor. 2013, 5, 1353-68	624 18
1822 1821 1820 1819	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. 2013, 7, 1239-45  Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of zigzag/armchair edges. 2013, 15, 803-6  Semiconducting graphene: converting graphene from semimetal to semiconductor. 2013, 5, 1353-68  Hidden Properties of Carbon Dots Revealed After HPLC Fractionation. 2013, 4, 239-43	624 18 122 96
1822 1821 1820 1819	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. 2013, 7, 1239-45  Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of zigzag/armchair edges. 2013, 15, 803-6  Semiconducting graphene: converting graphene from semimetal to semiconductor. 2013, 5, 1353-68  Hidden Properties of Carbon Dots Revealed After HPLC Fractionation. 2013, 4, 239-43  Dimension-tailored functional graphene structures for energy conversion and storage. 2013, 5, 3112-26  Preparation of excitation-independent photoluminescent graphene quantum dots with visible-light	624 18 122 96 86

## (2013-2013)

1814	Nanoscale assembly into extended and continuous structures and hybrid materials. <b>2013</b> , 5, e43-e43	18
1813	Graphene based materials for biomedical applications. <b>2013</b> , 16, 365-373	46 <del>7</del>
1812	Graphene: promises, facts, opportunities, and challenges in nanomedicine. <b>2013</b> , 113, 3407-24	563
1811	Size-dependence of Raman scattering from graphene quantum dots: Interplay between shape and thickness. <b>2013</b> , 102, 053108	51
1810	Graphene quantum-dot-doped polypyrrole counter electrode for high-performance dye-sensitized solar cells. <b>2013</b> , 5, 2047-52	149
1809	Highly porous graphene on carbon cloth as advanced electrodes for flexible all-solid-state supercapacitors. <b>2013</b> , 2, 530-536	175
1808	Graphitic carbon quantum dots as a fluorescent sensing platform for highly efficient detection of Fe3+ ions. <b>2013</b> , 3, 3733	216
1807	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. <b>2013</b> , 93, 161-164	57
1806	Graphene quantum dots combined with europium ions as photoluminescent probes for phosphate sensing. <b>2013</b> , 19, 3822-6	144
1805	Filster resonance energy transfer and carbon dots enhance light harvesting in a solid-state quantum dot solar cell. <b>2013</b> , 1, 3907	70
1804	Intrinsic and Extrinsic Fluorescence in Carbon Nanodots: Ultrafast Time-Resolved Fluorescence and Carrier Dynamics. <b>2013</b> , 1, 173-178	126
1803	Electrophoretic fabrication of highly robust, efficient, and benign heterojunction photoelectrocatalysts based on graphene-quantum-dot sensitized TiO2 nanotube arrays. <b>2013</b> , 1, 3551	115
1802	Quantum dots for fluorescent biosensing and bio-imaging applications. <b>2013</b> , 138, 2506-15	285
1801	Efficient organic solar cells with solution-processed carbon nanosheets as transparent electrodes. <b>2013</b> , 102, 043304	30
1800	Graphene-Based Nanomaterials: Synthesis, Properties, and Optical and Optoelectronic Applications. <b>2013</b> , 23, 1984-1997	212
1799	Recent advancements of graphene in biomedicine. <b>2013</b> , 1, 2542-2567	153
1798	Glutathione-functionalized graphene quantum dots as selective fluorescent probes for phosphate-containing metabolites. <b>2013</b> , 5, 1810-5	153
1797	Graphene Quantum Dots as a Green Sensitizer to Functionalize ZnO Nanowire Arrays on F-Doped SnO2 Glass for Enhanced Photoelectrochemical Water Splitting. <b>2013</b> , 3, 997-1003	174

1796	Nano-graphene oxide: a potential multifunctional platform for cancer therapy. <b>2013</b> , 2, 1072-90		128
1795	One-step preparation of nitrogen-doped graphene quantum dots from oxidized debris of graphene oxide. <b>2013</b> , 1, 39-42		340
1794	Graphene quantum dot hybrids as efficient metal-free electrocatalyst for the oxygen reduction reaction. <b>2013</b> , 5, 3362-9		110
1793	Unraveling Bright Molecule-Like State and Dark Intrinsic State in Green-Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. <b>2013</b> , 1, 264-271		122
1792	Bottom-up fabrication of photoluminescent carbon dots with uniform morphology via a soft-hard template approach. <b>2013</b> , 49, 4920-2		102
1791	Carbon nanotube+graphene quantum dots complex for biomedical applications. 2013,		1
1790	Electron-tunneling modulation in percolating network of graphene quantum dots: fabrication, phenomenological understanding, and humidity/pressure sensing applications. <i>Nano Letters</i> , <b>2013</b> , 13, 1757-63	11.5	114
1789	Large scale preparation of graphene quantum dots from graphite with tunable fluorescence properties. <b>2013</b> , 15, 9907-13		216
1788	Fabrication of highly fluorescent graphene quantum dots using L-glutamic acid for / imaging and sensing. <b>2013</b> , 1, 4676-4684		319
1787	Graphene quantum dots as universal fluorophores and their use in revealing regulated trafficking of insulin receptors in adipocytes. <b>2013</b> , 7, 6278-86		204
1786	Aryl-modified graphene quantum dots with enhanced photoluminescence and improved pH tolerance. <b>2013</b> , 5, 7361-7		80
1785	Fluorescent graphene quantum dots with a boronic acid appended bipyridinium salt to sense monosaccharides in aqueous solution. <b>2013</b> , 49, 5180-2		97
1784	Oxygen Reduction Catalyzed by Platinum Nanoparticles Supported on Graphene Quantum Dots. <b>2013</b> , 3, 831-838		164
1783	Insight into the cellular internalization and cytotoxicity of graphene quantum dots. 2013, 2, 1613-9		155
1782	Effect of injection routes on the biodistribution, clearance, and tumor uptake of carbon dots. <b>2013</b> , 7, 5684-93		268
1781	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. <b>2013</b> , 30, 764-769		56
1780	Solution-processable graphene quantum dots. <b>2013</b> , 14, 2627-40		29
1779	Highly-efficient peroxidase-like catalytic activity of graphene dots for biosensing. <b>2013</b> , 49, 519-24		150

### (2014-2013)

1778	solution-processable transparent electrodes. <b>2013</b> , 115, 1-6	28
1777	Facile synthetic method for pristine graphene quantum dots and graphene oxide quantum dots: origin of blue and green luminescence. <b>2013</b> , 25, 3657-62	480
1776	Highly sensitive and selective fluorescent detection of cerebral lead(II) based on graphene quantum dot conjugates. <b>2013</b> , 49, 10599-601	68
1775	Optical control of magnetization and spin blockade in graphene quantum dots. <b>2013</b> , 87,	20
1774	Recent advances in graphene quantum dots for sensing. <b>2013</b> , 16, 433-442	552
1773	Quantum Dots for DNA Biosensing. <b>2013</b> ,	11
1772	Graphene Quantum Dots from Polycyclic Aromatic Hydrocarbon for Bioimaging and Sensing of Fe3+ and Hydrogen Peroxide. <b>2013</b> , 30, 1086-1092	119
1771	Photoluminescence properties of graphene versus other carbon nanomaterials. <b>2013</b> , 46, 171-80	623
1770	Nucleonic-resolution optical mass sensor based on a graphene nanoribbon quantum dot. <b>2013</b> , 52, 5816-21	6
1769	Hydrothermal/Solvothermal Synthesis of Graphene Quantum Dots and Their Biological Applications. <b>2013</b> , 5,	31
1768	Hysteresis and charge trapping in graphene quantum dots. <b>2013</b> , 102, 143104	36
1767	Enhancing the short-circuit current and power conversion efficiency of polymer solar cells with graphene quantum dots derived from double-walled carbon nanotubes. <b>2013</b> , 5, e60-e60	60
1766	A visible-light-driven composite photocatalyst of TiO2 nanotube arrays and graphene quantum dots. <b>2014</b> , 5, 689-95	29
1765	Allotropic Carbon Nanoforms as Advanced Metal-Free Catalysts or as Supports. <b>2014</b> , 2014, 1-20	9
1764	EFFECT OF GRAPHITE PRECURSOR ON OXIDATION DEGREE, HYDROPHILICITY AND MICROSTRUCTURE OF GRAPHENE OXIDE. <b>2014</b> , 09, 1450037	16
1763	From highly graphitic to amorphous carbon dots: A critical review. <b>2014</b> , 1, 1	33
1762	Fluorescent carbon dots as an efficient siRNA nanocarrier for its interference therapy in gastric cancer cells. <b>2014</b> , 12, 58	91
1761	Dual functional carbonaceous nanodots exist in a cup of tea. <b>2014</b> , 4, 63414-63419	32

1760	Facile synthesis and photoluminescence mechanism of graphene quantum dots. <b>2014</b> , 116, 244306	30
1759	Recent advances in application of biosensors in tissue engineering. <b>2014</b> , 2014, 307519	94
1758	Simple one-step synthesis of water-soluble fluorescent carbon dots from waste paper. <b>2014</b> , 38, 906	100
1757	Spatial modulation spectroscopy of graphene sheets. <b>2014</b> , 140, 074203	7
1756	Hydrothermal Preparation of Photoluminescent Graphene Quantum Dots Characterized Excitation-Independent Emission and its Application as a Bioimaging Reagent. <b>2014</b> , 31, 801-809	53
1755	Chlorine doped graphene quantum dots: Preparation, properties, and photovoltaic detectors. <b>2014</b> , 105, 111116	51
1754	Blue Luminescent Graphene Quantum Dots by Photochemical Stitching of Small Aromatic Molecules: Fluorescent Nanoprobes in Cellular Imaging. <b>2014</b> , 31, 433-438	52
1753	Functionalized graphene quantum dots loaded with free radicals combined with liquid chromatography and tandem mass spectrometry to screen radical scavenging natural antioxidants from Licorice and Scutellariae. <b>2014</b> , 37, 3641-8	8
1752	Nanomedicine. 2014,	14
1751	Simple and green synthesis of nitrogen-, sulfur-, and phosphorus-co-doped carbon dots with tunable luminescence properties and sensing application. <b>2014</b> , 4, 54060-54065	126
1750	An approach to controlling the fluorescence of graphene quantum dots: From surface oxidation to fluorescent mechanism. <b>2014</b> , 23, 128103	12
1749	Pristine graphene quantum dots for detection of copper ions. <b>2014</b> , 29, 1401-1407	33
1748	Simultaneous detection of multiple DNA targets by integrating dual-color graphene quantum dot nanoprobes and carbon nanotubes. <b>2014</b> , 20, 16065-9	38
1747	Fluorescence Lifetime Analysis of Graphene Quantum Dots. <b>2014</b> , 118, 30282-30290	26
1746	Enhancement of electro-optical response of ferroelectric liquid crystal: the role of graphene quantum dots. <b>2014</b> , 41, 1719-1725	31
1745	Optical Properties of Graphene Nanostructures. <b>2014</b> , 145-168	
1744	A dually spontaneous reduction and assembly strategy for hybrid capsules of graphene quantum dots with platinumdopper nanoparticles for enhanced oxygen reduction reaction. <b>2014</b> , 74, 170-179	20
1743	Nanomaterial-based fluorescent probes for live-cell imaging. <b>2014</b> , 58, 130-144	49

1742	transistors. <b>2014</b> , 15, 132-138	15
1741	Graphene quantum dots and the resonance light scattering technique for trace analysis of phenol in different water samples. <b>2014</b> , 125, 341-6	37
1740	Carbon dots with tunable emission, controllable size and their application for sensing hypochlorous acid. <b>2014</b> , 151, 100-105	64
1739	Anticrossing spectroscopy in multi-nanolayer structures. <b>2014</b> , 75, 670-679	5
1738	IIurn-onIfluorescent detection of cyanide based on polyamine-functionalized carbon quantum dots. <b>2014</b> , 4, 3685-3689	18
1737	Graphene quantum dots as sensor for phenols in olive oil. <b>2014</b> , 197, 350-357	49
1736	Synergistically enhanced activity of graphene quantum dot/multi-walled carbon nanotube composites as metal-free catalysts for oxygen reduction reaction. <b>2014</b> , 6, 2603-7	95
1735	A general quantitative pH sensor developed with dicyandiamide N-doped high quantum yield graphene quantum dots. <b>2014</b> , 6, 3868-74	309
1734	Red shift in the photoluminescence of colloidal carbon quantum dots induced by photon reabsorption. <b>2014</b> , 104, 091902	66
1733	Graphene Quantum Dots. <b>2014</b> , 31, 415-428	616
155		010
1732	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. <b>2014</b> , 810, 71-8	112
1732	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing	
1732	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. <b>2014</b> , 810, 71-8	
1732 1731	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. <b>2014</b> , 810, 71-8  Toward Tandem Photovoltaic Devices Employing Nanoarray Graphene-Based Sheets. <b>2014</b> , 118, 2385-2390  Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe3+	112
1732 1731 1730	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. 2014, 810, 71-8  Toward Tandem Photovoltaic Devices Employing Nanoarray Graphene-Based Sheets. 2014, 118, 2385-2390  Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe3+ Sensing. 2014, 24, 3021-3026  Amino-functionalized graphene quantum dots: origin of tunable heterogeneous	112 6 377
1732 1731 1730 1729	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. 2014, 810, 71-8  Toward Tandem Photovoltaic Devices Employing Nanoarray Graphene-Based Sheets. 2014, 118, 2385-2390  Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe3+ Sensing. 2014, 24, 3021-3026  Amino-functionalized graphene quantum dots: origin of tunable heterogeneous photoluminescence. 2014, 6, 3384-91  Dual functional carbon dots derived from cornflour via a simple one-pot hydrothermal route. 2014,	112 6 377 204
1732 1731 1730 1729 1728	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. 2014, 810, 71-8  Toward Tandem Photovoltaic Devices Employing Nanoarray Graphene-Based Sheets. 2014, 118, 2385-2390  Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe3+ Sensing. 2014, 24, 3021-3026  Amino-functionalized graphene quantum dots: origin of tunable heterogeneous photoluminescence. 2014, 6, 3384-91  Dual functional carbon dots derived from cornflour via a simple one-pot hydrothermal route. 2014, 123, 107-111	112 6 377 204 72

1724	Graphene materials and their use in dye-sensitized solar cells. <b>2014</b> , 114, 6323-48	331
1723	Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. <b>2014</b> , 4, 21101	52
1722	Deep ultraviolet to near-infrared emission and photoresponse in layered N-doped graphene quantum dots. <b>2014</b> , 8, 6312-20	384
1721	Carbon-Dot-Decorated Nanodiamonds. <b>2014</b> , 31, 580-590	33
1720	Versatile Graphene Quantum Dots with Tunable Nitrogen Doping. <b>2014</b> , 31, 597-604	105
1719	Size-controllable and low-cost fabrication of graphene quantum dots using thermal plasma jet. <b>2014</b> , 8, 4190-6	83
1718	Effect of size variation on the cathodoluminescence characteristics of graphene quantum dots. <b>2014</b> , 14, S111-S114	3
1717	Carbon Dots with Continuously Tunable Full-Color Emission and Their Application in Ratiometric pH Sensing. <b>2014</b> , 26, 3104-3112	669
1716	Graphene quantum dots as a fluorescent sensing platform for highly efficient detection of copper(II) ions. <b>2014</b> , 190, 516-522	258
1715	Exciton characteristics in graphene epoxide. <b>2014</b> , 8, 1284-9	27
1715 1714	Exciton characteristics in graphene epoxide. <b>2014</b> , 8, 1284-9  Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. <b>2014</b> , 54, 83-102	<sup>27</sup>
, ,	Luminescent graphene quantum dots as new fluorescent materials for environmental and	
1714	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. <b>2014</b> , 54, 83-102  Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. <b>2014</b> ,	245
1714 1713	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. <b>2014</b> , 54, 83-102  Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. <b>2014</b> , 66, 334-339  Histidine-derived nontoxic nitrogen-doped carbon dots for sensing and bioimaging applications.	245 108
1714 1713 1712	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. 2014, 54, 83-102  Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. 2014, 66, 334-339  Histidine-derived nontoxic nitrogen-doped carbon dots for sensing and bioimaging applications. 2014, 30, 13542-8  Water-dispersible, pH- and ultralong stable, biocompatible, and highly luminescent graphite-like	245 108 121
1714 1713 1712 1711	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. 2014, 54, 83-102  Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. 2014, 66, 334-339  Histidine-derived nontoxic nitrogen-doped carbon dots for sensing and bioimaging applications. 2014, 30, 13542-8  Water-dispersible, pH- and ultralong stable, biocompatible, and highly luminescent graphite-like poly(L-proline) dots: a cytoplasm staining reagent. 2014, 4, 23826  Ultrafast synthesis of nitrogen-doped carbon dots via neutralization heat for bioimaging and	245 108 121 2
1714 1713 1712 1711 1710	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. 2014, 54, 83-102  Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. 2014, 66, 334-339  Histidine-derived nontoxic nitrogen-doped carbon dots for sensing and bioimaging applications. 2014, 30, 13542-8  Water-dispersible, pH- and ultralong stable, biocompatible, and highly luminescent graphite-like poly(L-proline) dots: a cytoplasm staining reagent. 2014, 4, 23826  Ultrafast synthesis of nitrogen-doped carbon dots via neutralization heat for bioimaging and sensing applications. 2014, 4, 44504-44508	245 108 121 2 40

1706	Spiers Memorial Lecture. Advances of carbon nanomaterials. <b>2014</b> , 173, 9-46	20
1705	Facile synthesis of water-soluble and biocompatible fluorescent nitrogen-doped carbon dots for cell imaging. <b>2014</b> , 139, 1692-6	103
1704	Accelerated reducing synthesis of Ag@CDs composite and simultaneous determination of glucose during the synthetic process. <b>2014</b> , 4, 3992-3997	15
1703	Influence of nanosecond pulsed plasma on the non-enzymatic pathway for the generation of nitric oxide from L-arginine and the modification of graphite oxide to increase the solar cell efficiency. <b>2014</b> , 16, 18375-82	7
1702	PEGylated carbon nanoparticles for efficient in vitro photothermal cancer therapy. <b>2014</b> , 2, 2184-2192	53
1701	Gram-scale synthesis of single-crystalline graphene quantum dots with superior optical properties. <b>2014</b> , 5, 5357	589
1700	Bioimaging based on fluorescent carbon dots. <b>2014</b> , 4, 27184	291
1699	Edge-enriched graphene quantum dots for enhanced photo-luminescence and supercapacitance. <b>2014</b> , 6, 11988-94	372
1698	Direct synthesis of graphene quantum dots on hexagonal boron nitride substrate. <b>2014</b> , 2, 3717-3722	19
1697	Fluorescence from graphene oxide and the influence of ionic, Einteractions and heterointerfaces: electron or energy transfer dynamics. <b>2014</b> , 16, 21183-203	35
1696	A single-wavelength-emitting ratiometric probe based on phototriggered fluorescence switching of graphene quantum dots. <b>2014</b> , 20, 13777-82	8
1695	Facile synthesis and photoluminescence of graphene oxide quantum dots and their reduction products. <b>2014</b> , 38, 4970-4974	33
1694	Ultra-bright alkylated graphene quantum dots. <b>2014</b> , 6, 12635-43	21
1693	Mitigating the Cytotoxicity of Graphene Quantum Dots and Enhancing Their Applications in Bioimaging and Drug Delivery. <b>2014</b> , 3, 1064-1068	76
1692	Electrochemiluminescence resonance energy transfer between graphene quantum dots and gold nanoparticles for DNA damage detection. <b>2014</b> , 139, 2404-10	89
1691	Graphene quantum dots derived from platelet graphite nanofibers by liquid-phase exfoliation. <b>2014</b> , 78, 314-319	19
1690	Graphene Quantum Dots. <b>2014</b> ,	26
1689	Graphene quantum dot-capped mesoporous silica nanoparticles through an acid-cleavable acetal bond for intracellular drug delivery and imaging. <b>2014</b> , 2, 4979-4982	85

1688	Facile synthesis of analogous graphene quantum dots with sp(2) hybridized carbon atom dominant structures and their photovoltaic application. <b>2014</b> , 6, 13043-52	66
1687	Chemically tailoring coal to fluorescent carbon dots with tuned size and their capacity for Cu(II) detection. <b>2014</b> , 10, 4926-33	157
1686	Facile hydrothermal synthesis of carbon nanoparticles and possible application as white light phosphors and catalysts for the reduction of nitrophenol. <b>2014</b> , 4, 11481	32
1685	Fast one-step synthesis of N-doped carbon dots by pyrolyzing ethanolamine. <b>2014</b> , 2, 7477-7481	126
1684	Photoluminescent graphene nanoparticles for cancer phototherapy and imaging. <b>2014</b> , 6, 12413-21	113
1683	Preparation of functionalized water-soluble photoluminescent carbon quantum dots from petroleum coke. <b>2014</b> , 78, 480-489	171
1682	Large scale synthesis of graphene quantum dots (GQDs) from waste biomass and their use as an efficient and selective photoluminescence on-off-on probe for Ag(+) ions. <b>2014</b> , 6, 11664-70	141
1681	Nanoporous graphene by quantum dots removal from graphene and its conversion to a potential oxygen reduction electrocatalyst via nitrogen doping. <b>2014</b> , 7, 1059	140
1680	Graphene quantum-dot-supported platinum nanoparticles: defect-mediated electrocatalytic activity in oxygen reduction. <b>2014</b> , 6, 14050-60	67
1679	Facile route to highly photoluminescent carbon nanodots for ion detection, pH sensors and bioimaging. <b>2014</b> , 6, 9139-47	70
1678	Multifunctional graphene quantum dots for simultaneous targeted cellular imaging and drug delivery. <b>2014</b> , 122, 638-644	225
1677	One-pot green synthesis of water-soluble carbon nanodots with multicolor photoluminescence from polyethylene glycol. <b>2014</b> , 2, 3937-3945	62
1676	Sulfur-doped graphene quantum dots as a novel fluorescent probe for highly selective and sensitive detection of Fe(3+). <b>2014</b> , 86, 10201-7	434
1675	Facile method to sort graphene quantum dots by size through ammonium sulfate addition. <b>2014</b> , 4, 56848-56	852
1674	Simultaneously enhancing up-conversion fluorescence and red-shifting down-conversion luminescence of carbon dots by a simple hydrothermal process. <b>2014</b> , 2, 6947-6952	34
1673	Optical properties of fluorescent zigzag graphene quantum dots derived from multi-walled carbon nanotubes. <b>2014</b> , 104, 063109	23
1672	Regulation of photoluminescence properties of graphene quantum dots via hydrothermal treatment. <b>2014</b> , 16, 19011-6	43
1671	One pot synthesis of graphene quantum disks derived from single-layered exfoliated graphene sheets and their application in bioimaging. <b>2014</b> , 4, 25916	6

1670	Dual-colored graphene quantum dots-labeled nanoprobes/graphene oxide: functional carbon materials for respective and simultaneous detection of DNA and thrombin. <b>2014</b> , 25, 415501	24
1669	Highly Luminescent Polymer Particles Driven by Thermally Reduced Graphene Quantum Dot Surfactants. <b>2014</b> , 3, 985-990	36
1668	Physiochemical and optical properties of chitosan based graphene oxide bionanocomposite. <b>2014</b> , 70, 559-64	70
1667	Flexible wire-like all-carbon supercapacitors based on porous core@hell carbon fibers. 2014, 2, 7250-7255	78
1666	In situ growth of silver nanoparticles on graphene quantum dots for ultrasensitive colorimetric detection of HDIand glucose. <b>2014</b> , 86, 6689-94	250
1665	GoldBilver nanocomposite-functionalized graphene based electrochemiluminescence immunosensor using graphene quantum dots coated porous PtPd nanochains as labels. <b>2014</b> , 123, 470-476	47
1664	Optically and electrically tunable graphene quantum dotpolyaniline composite films. <b>2014</b> , 2, 4526-4532	51
1663	Graphene quantum dots, graphene oxide, carbon quantum dots and graphite nanocrystals in coals. <b>2014</b> , 6, 7410-5	170
1662	Tailoring surface groups of carbon quantum dots to improve photoluminescence behaviors. <b>2014</b> , 301, 156-160	45
1661	Carbon-based quantum dots for fluorescence imaging of cells and tissues. <b>2014</b> , 4, 10791	253
1660	Single-particle fluorescence intensity fluctuations of carbon nanodots. <i>Nano Letters</i> , <b>2014</b> , 14, 620-5 11.5	155
1659	Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. <b>2014</b> , 2, 983-989	59
1658	Tunable photoluminescence and spectrum split from fluorinated to hydroxylated graphene. <b>2014</b> , 6, 3316-24	80
1657	Graphene quantum dots optimization of dye-sensitized solar cells. <b>2014</b> , 137, 634-638	80
1656	Recent progress on graphene-based hybrid electrocatalysts. <b>2014</b> , 1, 379-399	277
1655	Graphene quantum dots enhanced electrochemiluminescence of cadmium sulfide nanocrystals for ultrasensitive determination of pentachlorophenol. <b>2014</b> , 139, 2912-8	29
1654	Graphene quantum dots cut from graphene flakes: high electrocatalytic activity for oxygen reduction and low cytotoxicity. <b>2014</b> , 4, 23097-23106	51
1653	Ultrasmall Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. <b>2014</b> , 24, 6963-6971	52

1652	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <b>2014</b> , 2, 1016-1023	199
1651	Facile synthesis and optical properties of nitrogen-doped carbon dots. <b>2014</b> , 38, 1522	70
1650	A facile large-scale microwave synthesis of highly fluorescent carbon dots from benzenediol isomers. <b>2014</b> , 2, 5028-5035	63
1649	Crystalline Si/Graphene Quantum Dots Heterojunction Solar Cells. <b>2014</b> , 118, 5164-5171	102
1648	Polymer nanodots of graphitic carbon nitride as effective fluorescent probes for the detection of Fe[]+ and Cu[]+ ions. <b>2014</b> , 6, 4157-62	264
1647	Synthesis of luminescent 3D microstructures formed by carbon quantum dots and their self-assembly properties. <b>2014</b> , 50, 6592-5	39
1646	The in vitro and in vivo toxicity of graphene quantum dots. <b>2014</b> , 35, 5041-8	359
1645	Luminescence properties of boron and nitrogen doped graphene quantum dots prepared from arc-discharge-generated doped graphene samples. <b>2014</b> , 595-596, 203-208	142
1644	Formation mechanism and optimization of highly luminescent N-doped graphene quantum dots. <b>2014</b> , 4, 5294	639
1643	The uptake mechanism and biocompatibility of graphene quantum dots with human neural stem cells. <b>2014</b> , 6, 5799-806	143
1642	Boron-doped graphene quantum dots for selective glucose sensing based on the "abnormal" aggregation-induced photoluminescence enhancement. <b>2014</b> , 86, 4423-30	281
1641	Electroluminescence from graphene quantum dots prepared by amidative cutting of tattered graphite. <i>Nano Letters</i> , <b>2014</b> , 14, 1306-11	226
1640	An overview of recent advances in quantum dots for biomedical applications. <b>2014</b> , 124, 118-31	86
1639	Science and Engineering of Graphene Oxide. <b>2014</b> , 31, 619-638	29
1638	Stable Ni nanoparticle-reduced graphene oxide composites for the reduction of highly toxic aqueous Cr(VI) at room temperature. <b>2014</b> , 30, 3209-16	124
1637	From metal-organic framework to intrinsically fluorescent carbon nanodots. <b>2014</b> , 20, 8279-82	50
1636	One-pot synthesis of N-doped graphene quantum dots as a fluorescent sensing platform for Fe3+ ions detection. <b>2014</b> , 202, 568-573	136
1635	Graphene quantum dots as fluorescence probes for turn-off sensing of melamine in the presence of Hg(2+). <b>2014</b> , 6, 2858-64	106

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1634	Novel electrochemical sensor based on graphene quantum dots/riboflavin nanocomposite for the detection of persulfate. <b>2014</b> , 201, 503-510	80
1633	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme-graphene oxide interactions. <b>2014</b> , 61, 655-62	37
1632	Manufacturing nanomaterials: from research to industry. <b>2014</b> , 1, 11	124
1631	White-Light-Emitting Edge-Functionalized Graphene Quantum Dots. <b>2014</b> , 126, 5725-5729	40
1630	Micro-nanostructured silicone-carbon composite coatings with superhydrophobicity and photoluminescence prepared by oxidative chemical vapor deposition. <b>2014</b> , 131, n/a-n/a	6
1629	Field effect transport properties of chemically treated graphene quantum dots. 2014, 11, 75	7
1628	Spectroscopic characteristics of carbon dots (C-dots) derived from carbon fibers and conversion to sulfur-bridged C-dots nanosheets. <b>2015</b> , 69, 1082-90	14
1627	Chemistry of Boron Nitride Nanosheets. <b>2015</b> , 386-427	1
1626	Graphene and Graphene Derivatives in Biosensing, Imaging, Therapeutics, and Genetic Engineering. <b>2015</b> , 1, 386-420	
1625	Conjugated-Polymer/Quantum-Confined Nanomaterials-Based Hybrids for Optoelectronic Applications. <b>2015</b> , 163-227	3
1624	New Nanoscale Material: Graphene Quantum Dots. <b>2015</b> , 141-194	3
1623	Surface-Engineered Graphene Quantum Dots Incorporated into Polymer Layers for High Performance Organic Photovoltaics. <b>2015</b> , 5, 14276	48
1622	Intrinsic and extrinsic defects in a family of coal-derived graphene quantum dots. 2015, 107, 212402	17
1621	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. <b>2015</b> , 5, 14163	41
1620	Production of graphene oxide from pitch-based carbon fiber. <b>2015</b> , 5, 11707	15
1619	Graphene Quantum Dot-Protected Cadmium Selenide Quantum Dot-Sensitized Photoanode for Efficient Photoelectrochemical Cells with Enhanced Stability and Performance. <b>2015</b> , 3, 907-912	23
1618	Tunable Photoluminescence Across the Entire Visible Spectrum from Carbon Dots Excited by White Light. <b>2015</b> , 127, 3013-3017	24
1617	Anchoring of Gold Nanoparticles on Graphene Oxide and Noncovalent Interactions with Porphyrinoids. <b>2015</b> , 1, 502-510	3

1616	Controllable Synthesis of Highly Luminescent Boron Nitride Quantum Dots. 2015, 11, 6491-9	113
1615	Motif-Designed Peptide Nanofibers Decorated with Graphene Quantum Dots for Simultaneous Targeting and Imaging of Tumor Cells. <b>2015</b> , 25, 5472-5478	112
1614	Rupturing C60 Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. <b>2015</b> , 11, 5296-304	33
1613	. 2015,	26
1612	Synthesis of Luminescent Graphene Quantum Dots with High Quantum Yield and Their Toxicity Study. <b>2015</b> , 10, e0144906	97
1611	A Review on Materials Derived from Polystyrene and Different Types of Nanoparticles. <b>2015</b> , 54, 1819-1849	8
1610	Valine-derived carbon dots with colour-tunable fluorescence for the detection of Hg2+ with high sensitivity and selectivity. <b>2015</b> , 39, 6201-6206	26
1609	Biodegradable and conductive chitosangraphene quantum dot nanocomposite microneedles for delivery of both small and large molecular weight therapeutics. <b>2015</b> , 5, 51934-51946	46
1608	Multi-layered graphene quantum dots derived photodegradation mechanism of methylene blue. <b>2015</b> , 5, 51790-51798	23
1607	Facile access to B-doped solid-state fluorescent carbon dots toward light emitting devices and cell imaging agents. <b>2015</b> , 3, 6668-6675	84
1606	Surface engineering of graphene quantum dots and their applications as efficient surfactants. <b>2015</b> , 7, 8615-21	59
1605	Highly Photoluminescent Carbon Dots Derived from Egg White: Facile and Green Synthesis, Photoluminescence Properties, and Multiple Applications. <b>2015</b> , 3, 1412-1418	116
1604	Boron and Nitrogen Co-doped Carbon Nanoparticles as Photoluminescent Probes for Selective and Sensitive Detection of Picric Acid. <b>2015</b> , 119, 13138-13143	77
1603	A graphene quantum dots based fluorescent sensor for anthrax biomarker detection and its size dependence. <b>2015</b> , 3, 4865-4870	62
1602	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. <b>2015</b> , 115, 4744-822	1137
1601	One-pot synthesis of graphene oxide sheets and graphene oxide quantum dots from graphite nanofibers. <b>2015</b> , 17, 1	8
1600	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <b>2015</b> , 115, 10816-906	902
1599	Electrochemical tuning of optical properties of graphitic quantum dots. <b>2015</b> , 166, 322-327	4

### (2015-2015)

1598	Multicolor fluorescent graphene quantum dots colorimetrically responsive to all-pH and a wide temperature range. <b>2015</b> , 7, 11727-33	147
1597	A hyaluronic acid nanogel for photo-chemo theranostics of lung cancer with simultaneous light-responsive controlled release of doxorubicin. <b>2015</b> , 7, 10680-9	95
1596	Dual-Mode SERS-Fluorescence Immunoassay Using Graphene Quantum Dot Labeling on One-Dimensional Aligned Magnetoplasmonic Nanoparticles. <b>2015</b> , 7, 12168-75	74
1595	Synthesis of N, F and S co-doped graphene quantum dots. <b>2015</b> , 7, 11515-9	129
1594	Nitrogen and sulfur codoped graphene quantum dots as a new fluorescent probe for Au3+ ions in aqueous media. <b>2015</b> , 5, 107340-107347	29
1593	Graphene, graphene quantum dots and their applications in optoelectronics. <b>2015</b> , 20, 439-453	49
1592	On the origin and tunability of blue and green photoluminescence from chemically derived graphene: Hydrogenation and oxygenation studies. <b>2015</b> , 95, 228-238	34
1591	Facile synthesis of cysteinefunctionalized graphene quantum dots for a fluorescence probe for mercury ions. <b>2015</b> , 5, 97598-97603	43
1590	Electro-optical switching of liquid crystals sandwiched between ion-beam-spurted graphene quantum dots-doped PEDOT:PSS composite layers. <b>2015</b> , 23, 34071-81	21
1589	Extraction of graphitic carbon quantum dots by hydrothermal treatment commercially activated carbon: the role of cation[Interaction. <b>2015</b> , 17, 1	5
1588	Tailoring color emissions from N-doped graphene quantum dots for bioimaging applications. <b>2015</b> , 4, e364-e364	308
1587	Optical properties of few layered graphene quantum dots. <b>2015</b> , 2, 095024	28
1586	Yellow-visual fluorescent carbon quantum dots from petroleum coke for the efficient detection of Cu2+ ions. <b>2015</b> , 30, 550-559	46
1585	Graphene quantums dots combined with endonuclease cleavage and bidentate chelation for highly sensitive electrochemiluminescent DNA biosensing. <b>2015</b> , 87, 1145-51	58
1584	Optical and electrochemical applications of silicon-carbon dots/silicon dioxide nanocomposites. <b>2015</b> , 9, 312-9	51
1583	Graphene quantum dots: versatile photoluminescence for energy, biomedical, and environmental applications. <b>2015</b> , 3, 1157-1165	158
1582	Facile synthesis of N, S-codoped fluorescent carbon nanodots for fluorescent resonance energy transfer recognition of methotrexate with high sensitivity and selectivity. <b>2015</b> , 64, 517-22	78
1581	Controllable and mass fabrication of highly luminescent N-doped carbon dots for bioimaging applications. <b>2015</b> , 5, 22343-22349	11

1580	Versatile photoluminescence from graphene and its derivatives. <b>2015</b> , 88, 86-112	64
1579	Silicon phthalocyanine covalently functionalized N-doped ultrasmall reduced graphene oxide decorated with Pt nanoparticles for hydrogen evolution from water. <b>2015</b> , 7, 3732-41	55
1578	Self-assembly of fluorescent carbon dots in a N,N-dimethylmethanamide solution via Schiff base reaction. <b>2015</b> , 7, 4372-6	6
1577	Luminescent properties of a water-soluble conjugated polymer incorporating graphene-oxide quantum dots. <b>2015</b> , 16, 1258-62	18
1576	Generation of graphene quantum dots by the oxidative cleavage of graphene oxide using the oxone oxidant. <b>2015</b> , 39, 2425-2428	30
1575	Fluorescent graphene quantum dots for biosensing and bioimaging. <b>2015</b> , 5, 19773-19789	171
1574	Nanoreactor-confined synthesis and separation of yellow-luminescent graphene quantum dots with a recyclable SBA-15 template and their application for Fe(III) sensing. <b>2015</b> , 87, 215-225	41
1573	Top-down Strategy toward Versatile Graphene Quantum Dots for Organic/Inorganic Hybrid Solar Cells. <b>2015</b> , 3, 637-644	60
1572	Solution-processed graphene quantum dot deep-UV photodetectors. <b>2015</b> , 9, 1561-70	206
1571	Green synthesis of fluorescent carbon quantum dots and carbon spheres from pericarp. <b>2015</b> , 58, 863-870	31
1571 1570		31
1570		
1570	Preparation and application of polymer nano-fiber doped with nano-particles. <b>2015</b> , 40, 49-56	10
1570 1569	Preparation and application of polymer nano-fiber doped with nano-particles. <b>2015</b> , 40, 49-56  Electrochemical synthesis of luminescent MoS2 quantum dots. <b>2015</b> , 51, 6293-6  Tunable photoluminescence across the entire visible spectrum from carbon dots excited by white	10
1570 1569 1568 1567	Preparation and application of polymer nano-fiber doped with nano-particles. 2015, 40, 49-56  Electrochemical synthesis of luminescent MoS2 quantum dots. 2015, 51, 6293-6  Tunable photoluminescence across the entire visible spectrum from carbon dots excited by white light. 2015, 54, 2970-4	10 177 451
1570 1569 1568 1567	Preparation and application of polymer nano-fiber doped with nano-particles. 2015, 40, 49-56  Electrochemical synthesis of luminescent MoS2 quantum dots. 2015, 51, 6293-6  Tunable photoluminescence across the entire visible spectrum from carbon dots excited by white light. 2015, 54, 2970-4  Photoluminescence-tunable carbon nanodots: surface-state energy-gap tuning. 2015, 27, 1663-7	10 177 451 528
1570 1569 1568 1567	Preparation and application of polymer nano-fiber doped with nano-particles. 2015, 40, 49-56  Electrochemical synthesis of luminescent MoS2 quantum dots. 2015, 51, 6293-6  Tunable photoluminescence across the entire visible spectrum from carbon dots excited by white light. 2015, 54, 2970-4  Photoluminescence-tunable carbon nanodots: surface-state energy-gap tuning. 2015, 27, 1663-7  White-Light Emission from Unmodified Graphene Oxide Quantum Dots. 2015, 119, 2733-2742  The photoluminescence mechanism in carbon dots (graphene quantum dots, carbon nanodots, and polymer dots): current state and future perspective. 2015, 8, 355-381	10 177 451 528 63

## (2015-2015)

1562	ascorbic acid. <b>2015</b> , 5, 21242-21248	8
1561	Graphene quantum dots directly generated from graphite via magnetron sputtering and the application in thin-film transistors. <b>2015</b> , 88, 225-232	23
1560	Acid-free and oxone oxidant-assisted solvothermal synthesis of graphene quantum dots using various natural carbon materials as resources. <b>2015</b> , 7, 5633-7	64
1559	Graphenol defects induced blue emission enhancement in chemically reduced graphene quantum dots. <b>2015</b> , 17, 22361-6	55
1558	Highly efficient degradation of dyes by carbon quantum dots/N-doped zinc oxide (CQD/N-ZnO) photocatalyst and its compatibility on three different commercial dyes under daylight. <b>2015</b> , 455, 101-9	95
1557	Negative induction effect of graphite N on graphene quantum dots: tunable band gap photoluminescence. <b>2015</b> , 3, 8810-8816	107
1556	Green preparation of fluorescent carbon dots from lychee seeds and their application for the selective detection of methylene blue and imaging in living cells. <b>2015</b> , 3, 6783-6789	99
1555	Graphene quantum dots decorated electrospun TiO2 nanofibers as an effective photoanode for dye sensitized solar cells. <b>2015</b> , 143, 250-259	77
1554	Amino acid functionalized blue and phosphorous-doped green fluorescent carbon dots as bioimaging probe. <b>2015</b> , 5, 65913-65921	50
1553	Development of hydrophilicity gradient ultracentrifugation method for photoluminescence investigation of separated non-sedimental carbon dots. <b>2015</b> , 8, 2810-2821	42
1552	Multi-positively charged dendrimeric nanoparticles induced fluorescence quenching of graphene quantum dots for heparin and chondroitin sulfate detection. <b>2015</b> , 74, 284-90	42
1551	Graphene quantum dots in analytical science. <b>2015</b> , 72, 93-113	157
1550	Preparation of fluorescent graphene quantum dots from humic acid for bioimaging application. <b>2015</b> , 39, 7054-7059	57
1549	Graphene-like two-dimensional layered nanomaterials: applications in biosensors and nanomedicine. <b>2015</b> , 7, 14217-31	180
1548	Sandwiched graphene with nitrogen, sulphur co-doped CQDs: an efficient metal-free material for energy storage and conversion applications. <b>2015</b> , 3, 16961-16970	86
1547	Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. <b>2015</b> , 5, 11032	46
1546	Carbon nanodots, Ru nanodots and hybrid nanodots: preparation and catalytic properties. <b>2015</b> , 3, 15074-150	814
1545	Size and Dopant Dependent Single Particle Fluorescence Properties of Graphene Quantum Dots. <b>2015</b> , 119, 17988-17994	35

1544	Development of a carbon dot (C-Dot)-linked immunosorbent assay for the detection of human Fetoprotein. <b>2015</b> , 87, 8510-6	89
1543	Multicolor Emitting Block Copolymer-Integrated Graphene Quantum Dots for Colorimetric, Simultaneous Sensing of Temperature, pH, and Metal Ions. <b>2015</b> , 27, 5288-5294	60
1542	Nanoparticle based fluorescence resonance energy transfer (FRET) for biosensing applications. <b>2015</b> , 3, 6989-7005	156
1541	Near-UV-emitting graphene quantum dots from graphene hydrogels. <b>2015</b> , 94, 181-188	28
1540	Graphene nanodots encaged 3-D gold substrate as enzyme loading platform for the fabrication of high performance biosensors. <b>2015</b> , 220, 1186-1195	23
1539	Graphene quantum dots: Highly active bifunctional nanoprobes for nonenzymatic photoluminescence detection of hydroquinone. <b>2015</b> , 74, 418-22	43
1538	A novel strategy for the detection of tert-butylhydroquinone based on graphene quantum dots and silver nanoparticle modified glass carbon electrode. <b>2015</b> , 93, 648-654	6
1537	A Facile Synthesis of Graphene Quantum Dots via Size-Selective Precipitation and Their Application in GQD-layer Modified DSSC. <b>2015</b> , 1727, 43	
1536	Graphene quantum dots enhanced photocatalytic activity of zinc porphyrin toward the degradation of methylene blue under visible-light irradiation. <b>2015</b> , 3, 8552-8558	119
1535	Highly sensitive enzymatic determination of urea based on the pH-dependence of the fluorescence of graphene quantum dots. <b>2015</b> , 182, 1431-1437	27
1534	Controllable size-selective method to prepare graphene quantum dots from graphene oxide. <b>2015</b> , 10, 55	103
1533	Bioapplication of graphene oxide derivatives: drug/gene delivery, imaging, polymeric modification, toxicology, therapeutics and challenges. <b>2015</b> , 5, 42141-42161	142
1532	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. <b>2015</b> , 119, 13369-13373	74
1531	Enhanced photoluminescence of pyrrolic-nitrogen enriched graphene quantum dots. <b>2015</b> , 5, 43750-43755	42
1530	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. <b>2015</b> , 7, 8159-65	149
1529	A FRET chemsensor based on graphene quantum dots for detecting and intracellular imaging of Hg[]+. <b>2015</b> , 143, 442-449	36
1528	Investigating the surface state of graphene quantum dots. <b>2015</b> , 7, 7927-33	159
1527	Unilamellar vesicles from amphiphilic graphene quantum dots. <b>2015</b> , 21, 7755-9	12

1526	Easy extraction of water-soluble graphene quantum dots for light emitting diodes. <b>2015</b> , 5, 27711-27716	44
1525	Functionalization of graphene oxide nanostructures improves photoluminescence and facilitates their use as optical probes in preclinical imaging. <b>2015</b> , 7, 10410-20	38
1524	Photoluminescent carbon nanodots: synthesis, physicochemical properties and analytical applications. <b>2015</b> , 18, 447-458	317
1523	Insight into the formation mechanism of graphene quantum dots and the size effect on their electrochemical behaviors. <b>2015</b> , 17, 14028-35	30
1522	Can graphene quantum dots cause DNA damage in cells?. <b>2015</b> , 7, 9894-901	88
1521	Green and fast synthesis of amino-functionalized graphene quantum dots with deep blue photoluminescence. <b>2015</b> , 17, 1	24
1520	Electrocatalytic hydrogen evolution using graphitic carbon nitride coupled with nanoporous graphene co-doped by S and Se. <b>2015</b> , 3, 12810-12819	91
1519	DNA derived fluorescent bio-dots for sensitive detection of mercury and silver ions in aqueous solution. <b>2015</b> , 347, 505-513	47
1518	Multifunctional biocompatible graphene oxide quantum dots decorated magnetic nanoplatform for efficient capture and two-photon imaging of rare tumor cells. <b>2015</b> , 7, 10935-43	76
1517	Eco-friendly synthesis of electrochemiluminescent nitrogen-doped carbon quantum dots from diethylene triamine pentacetate and their application for protein detection. <b>2015</b> , 91, 144-152	64
1516	Construction of Z-scheme carbon nanodots/WO3 with highly enhanced photocatalytic hydrogen production. <b>2015</b> , 3, 8256-8259	68
1515	Poly(vinylidene fluoride)/NH2-Treated Graphene Nanodot/Reduced Graphene Oxide Nanocomposites with Enhanced Dielectric Performance for Ultrahigh Energy Density Capacitor. <b>2015</b> , 7, 9668-81	65
1514	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. <b>2015</b> , 11, 3773-81	44
1513	Large scale preparation of graphene quantum dots from graphite oxide in pure water via one-step electrochemical tailoring. <b>2015</b> , 5, 29704-29707	44
1512	Preparation of biocompatible and antibacterial carbon quantum dots derived from resorcinol and formaldehyde spheres. <b>2015</b> , 5, 31677-31682	35
1511	Synthesis of graphene oxide dots for excitation-wavelength independent photoluminescence at high quantum yields. <b>2015</b> , 3, 4553-4562	33
1510	Graphene-based nanomaterials as molecular imaging agents. <b>2015</b> , 7, 737-58	35
1509	A two-component active targeting theranostic agent based on graphene quantum dots. <b>2015</b> , 3, 3583-3590	35

1508 Green synthesis of fluorescent carbon nanoparticles from lychee (Litchi chinensis) plant. 2015, 32, 1707-1711 13 Photoluminescent graphene quantum dots for in vitro and in vivo bioimaging using long 1507 39 wavelength emission. 2015, 5, 39399-39403 Simultaneous enhancement of Raman scattering and fluorescence emission on graphene quantum 8 1506 dot-spiky magnetoplasmonic supra-particle composite films. 2015, 5, 81753-81758 Photochemical synthesis of doped graphene quantum dots and their photoluminescence in 1505 aqueous and solid states. 2015, 5, 84276-84279 Simple synthesis of solution-processable oxygen-enriched graphene as anode buffer layer for 6 1504 efficient organic solar cells. 2015, 27, 143-150 Preparation of ultrabright AIE nanoprobes via dynamic bonds. 2015, 71, 8791-8797 24 An acid-free microwave approach to prepare highly luminescent boron-doped graphene quantum 1502 72 dots for cell imaging. 2015, 3, 9109-9114 Graphene quantum dots assisted photovoltage and efficiency enhancement in CdSe quantum dot 1501 18 sensitized solar cells. 2015, 24, 722-728 1500 Recent Advances in Two-Dimensional Materials beyond Graphene. 2015, 9, 11509-39 1581 Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and 1499 211 Photoconduction. 2015, 9, 12480-7 1498 Graphene quantum dots for the inhibition of Damyloid aggregation. 2015, 7, 19060-5 90 A novel electrochemiluminescent immunosensor based on the quenching effect of aminated 1497 49 graphene on nitrogen-doped carbon quantum dots. 2015, 889, 82-9 Intramolecular hydrogen bonds quench photoluminescence and enhance photocatalytic activity of 1496 62 carbon nanodots. 2015, 21, 8561-8 Preparation of graphene quantum dots based core-satellite hybrid spheres and their use as the 40 ratiometric fluorescence probe for visual determination of mercury(II) ions. 2015, 888, 173-81 A facile photoluminescence modulated nanosensor based on nitrogen-doped graphene quantum 1494 37 dots for sulfite detection. 2015, 39, 8114-8120 Localized charge carriers in graphene nanodevices. **2015**, 2, 031301 62 1492 Noncovalent Molecular Doping of Two-Dimensional Materials. 2015, 1, 542-557 35 Confined germanium nanoparticles in an N-doped carbon matrix for high-rate and ultralong-life 1491 14 lithium ion batteries. 2015, 5, 85256-85263

### (2015-2015)

1490	Comparative study for N and S doped carbon dots: Synthesis, characterization and applications for Fe(3+) probe and cellular imaging. <b>2015</b> , 898, 116-27	161
1489	Fractional photo-current dependence of graphene quantum dots prepared from carbon nanotubes. <b>2015</b> , 17, 24566-9	11
1488	In vitro nucleus nanoprobe with ultra-small polyethylenimine functionalized graphene quantum dots. <b>2015</b> , 5, 75380-75385	20
1487	Production of quasi-2D graphene nanosheets through the solvent exfoliation of pitch-based carbon fiber. <b>2015</b> , 26, 375602	10
1486	Fluorescently tuned nitrogen-doped carbon dots from carbon source with different content of carboxyl groups. <b>2015</b> , 3, 086102	33
1485	Graphene Quantum Rings Doped PEDOT:PSS Based Composite Layer for Efficient Performance of Optoelectronic Devices. <b>2015</b> , 119, 19619-19627	15
1484	Electrochemical study on the intercalation properties of hydroxyl anion for the reversible conversion of graphene quantum dots into carbon dots. <b>2015</b> , 756, 161-170	6
1483	Effect of nitrogen doping on the structural and the optical variations of graphene quantum dots by using hydrazine treatment. <b>2015</b> , 67, 746-751	7
1482	Sensing applications of luminescent carbon based dots. <b>2015</b> , 140, 7468-86	108
1481	Hydrophilic and blue fluorescent N-doped carbon dots from tartaric acid and various alkylol amines under microwave irradiation. <b>2015</b> , 7, 15915-23	62
1480	The up-converted photoluminescence and cell imaging of water-soluble carbon dots. <b>2015</b> , 638, 196-200	8
1479	Luminescent monolayer MoS2 quantum dots produced by multi-exfoliation based on lithium intercalation. <b>2015</b> , 359, 130-136	97
1478	Graphene quantum dots: In the crossroad of graphene, quantum dots and carbogenic nanoparticles. <b>2015</b> , 20, 354-361	28
1477	Photoinduced Electron Transfer from Various Aniline Derivatives to Graphene Quantum Dots. <b>2015</b> , 119, 11783-90	28
1476	Synthesis of Nitrogen-Doped Graphene Quantum Dots at Low Temperature for Electrochemical Sensing Trinitrotoluene. <b>2015</b> , 87, 11803-11	74
1475	Modification of Structural and Luminescence Properties of Graphene Quantum Dots by Gamma Irradiation and Their Application in a Photodynamic Therapy. <b>2015</b> , 7, 25865-74	78
1474	Recent Advances in Graphene Quantum Dots for Fluorescence Bioimaging from Cells through Tissues to Animals. <b>2015</b> , 32, 515-523	86
1473	The permeability and transport mechanism of graphene quantum dots (GQDs) across the biological barrier. <b>2015</b> , 7, 2034-41	42

1472	Glowing graphene quantum dots and carbon dots: properties, syntheses, and biological applications. <b>2015</b> , 11, 1620-36	1415
1471	Carbon black-derived graphene quantum dots composited with carbon aerogel as a highly efficient and stable reduction catalyst for the iodide/tri-iodide couple. <b>2015</b> , 7, 1209-15	47
1470	A novel semiconductor compatible path for nano-graphene synthesis using CBr4 precursor and Ga catalyst. <b>2014</b> , 4, 4653	7
1469	Photoluminescent graphene quantum dots for in vivo imaging of apoptotic cells. <b>2015</b> , 7, 2504-10	83
1468	A novel strategy to enhance ultraviolet light driven photocatalysis from graphene quantum dots infilled TiO2 nanotube arrays. <b>2015</b> , 5, 10623-10631	58
1467	Processable Aqueous Dispersions of Graphene Stabilized by Graphene Quantum Dots. <b>2015</b> , 27, 218-226	124
1466	Graphene quantum dots induce apoptosis, autophagy, and inflammatory response via p38 mitogen-activated protein kinase and nuclear factor- <b>B</b> mediated signaling pathways in activated THP-1 macrophages. <b>2015</b> , 327, 62-76	136
1465	To lose is to gain: Effective synthesis of water-soluble graphene fluoroxide quantum dots by sacrificing certain fluorine atoms from exfoliated fluorinated graphene. <b>2015</b> , 83, 152-161	39
1464	Systematic energetics study of graphene nanoflakes: From armchair and zigzag to rough edges with pronounced protrusions and overcrowded bays. <b>2015</b> , 82, 523-537	7
1463	Fabrication of modified glassy carbon electrode using graphene quantum dot, gold nanoparticles and 4-(((4-mercaptophenyl)imino)methyl) benzene-1,2-diol by self-assembly method and investigation of their electrocatalytic activities. <b>2015</b> , 738, 113-122	43
1462	One-step ultrasonic synthesis of graphene quantum dots with high quantum yield and their application in sensing alkaline phosphatase. <b>2015</b> , 51, 948-51	102
1461	Non-enzymatic-browning-reaction: a versatile route for production of nitrogen-doped carbon dots with tunable multicolor luminescent display. <b>2014</b> , 4, 3564	175
1460	Unveil the Fluorescence of Carbon Quantum Dots. <b>2015</b> , 17, 138-142	17
1459	Fabrication of a nitrogen-doped graphene quantum dot from MOF-derived porous carbon and its application for highly selective fluorescence detection of Fe3+. <b>2015</b> , 3, 291-297	165
1458	Structural evolution of graphene quantum dots during thermal decomposition of citric acid and the corresponding photoluminescence. <b>2015</b> , 82, 304-313	144
1457	Selective recognition of Glutamate based on fluorescence enhancement of graphene quantum dot. <b>2015</b> , 136 Pt C, 1962-6	20
1456	Transgenerational safety of nitrogen-doped graphene quantum dots and the underlying cellular mechanism in Caenorhabditis elegans. <b>2015</b> , 4, 270-280	52
1455	Ultraviolet and blue emitting graphene quantum dots synthesized from carbon nano-onions and their comparison for metal ion sensing. <b>2015</b> , 51, 4176-9	69

## (2016-2015)

1454	<b>2015</b> , 44, 4672-98	202
1453	Synthesis of nitrogen-doped and amino acid-functionalized graphene quantum dots from glycine, and their application to the fluorometric determination of ferric ion. <b>2015</b> , 182, 763-770	93
1452	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO2 nanoparticles. <b>2015</b> , 853, 258-264	122
1451	One- and two-photon luminescence in graphene oxide quantum dots. <b>2015</b> , 39, 98-101	24
1450	Graphene nanodots-encaged porous gold electrode fabricated via ion beam sputtering deposition for electrochemical analysis of heavy metal ions. <b>2015</b> , 206, 592-600	49
1449	Microwave bottom-up route for size-tunable and switchable photoluminescent graphene quantum dots using acetylacetone: New platform for enzyme-free detection of hydrogen peroxide. <b>2015</b> , 81, 514-524	74
1448	A high-capacitance solid-state supercapacitor based on free-standing film of polyaniline and carbon particles. <b>2015</b> , 153, 87-93	67
1447	Single source precursor-based solvothermal synthesis of heteroatom-doped graphene and its energy storage and conversion applications. <b>2014</b> , 4, 5639	92
1446	Upconversion photoluminescent metal ion sensors via two photon absorption in graphene oxide quantum dots. <b>2015</b> , 81, 367-375	49
1445	A glassy carbon electrode modified with graphene quantum dots and silver nanoparticles for simultaneous determination of guanine and adenine. <b>2015</b> , 182, 315-322	40
1444	A fluorescence resonance energy transfer (FRET) biosensor based on graphene quantum dots (GQDs) and gold nanoparticles (AuNPs) for the detection of mecA gene sequence of Staphylococcus aureus. <b>2015</b> , 67, 595-600	256
1443	Cancer therapy using ultrahigh hydrophobic drug-loaded graphene derivatives. <b>2014</b> , 4, 6314	86
1442	Tuning the Emission Energy of Chemically Doped Graphene Quantum Dots. 2016, 6,	30
1441	Particle Size-Dependent Antibacterial Activity and Murine Cell Cytotoxicity Induced by Graphene Oxide Nanomaterials. <b>2016</b> , 2016, 1-9	9
1440	. 2016,	66
1439	Graphene Quantum Dots: Syntheses, Properties, and Biological Applications. <b>2016</b> , 171-192	9
1438	Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. <b>2016</b> , 2016, 3130469	90
1437	Graphene Quantum Dots - From Emergence to Nanotheranostic Applications. <b>2016</b> ,	7

1436	Graphene and Carbon Quantum Dot-Based Materials in Photovoltaic Devices: From Synthesis to Applications. <b>2016</b> , 6,	99
1435	Electrochemical and Capacitive Properties of Carbon Dots/Reduced Graphene Oxide Supercapacitors. <b>2016</b> , 6,	43
1434	Graphene: The Missing Piece for Cancer Diagnosis?. <b>2016</b> , 16,	35
1433	Exfoliating and Dispersing Few-Layered Graphene in Low-Boiling-Point Organic Solvents towards Solution-Processed Optoelectronic Device Applications. <b>2016</b> , 11, 1441-6	2
1432	A timesaving, low-cost, high-yield method for the synthesis of ultrasmall uniform graphene oxide nanosheets and their application in surfactants. <b>2016</b> , 27, 055601	15
1431	Nitrogen-Doped Graphene Quantum Dot-Decorated ZnO Nanorods for Improved Electrochemical Solar Energy Conversion. <b>2016</b> , 4, 950-958	46
1430	Carbon Dots: Synthesis, Bioimaging, and Biosafety Assessment. <b>2016</b> , 429-486	3
1429	Supercritical Fluid Facilitated Disintegration of Hexagonal Boron Nitride Nanosheets to Quantum Dots and Its Application in Cells Imaging. <b>2016</b> , 8, 18647-51	44
1428	Carbon Dots with Intrinsic Theranostic Properties for Bioimaging, Red-Light-Triggered Photodynamic/Photothermal Simultaneous Therapy In Vitro and In Vivo. <b>2016</b> , 5, 665-75	202
1427	A Novel Technique of Synthesis of Highly Fluorescent Carbon Nanoparticles from Broth Constituent and In-vivo Bioimaging of C. elegans. <b>2016</b> , 26, 1541-8	14
1426	Synthetic Developments of Nontoxic Quantum Dots. <b>2016</b> , 17, 598-617	64
1425	Electrical-Polarization-Induced Ultrahigh Responsivity Photodetectors Based on Graphene and Graphene Quantum Dots. <b>2016</b> , 26, 620-628	74
1424	Room temperature synthesis of manganese oxide quantum dots and their application as a fluorescent probe for the detection of metal ions in aqueous media. <b>2016</b> , 6, 114632-114638	4
1423	Monitoring Dynamic Cellular Redox Homeostasis Using Fluorescence-Switchable Graphene Quantum Dots. <b>2016</b> , 10, 11475-11482	56
1422	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. <b>2016</b> , 108, 061904	7
1421	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. <b>2016</b> , 6, 38423	34
1420	Hydrothermal synthesis of fluorescent nitrogen-doped carbon quantum dots from ascorbic acid and valine for selective determination of picric acid in water samples. <b>2016</b> , 96, 1402-1413	11
1419	Graphene-Based Materials in Biosensing, Bioimaging, and Therapeutics. <b>2016</b> , 35-61	3

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1417 Graphene-based Materials in Health and Environment. <b>2016</b> ,	2
Ultrafast spontaneous emission modulation of graphene quantum dots interacting with Ag nanoparticles in solution. <b>2016</b> , 109, 021905	3
Graphene Quantum Dot - Titania Nanoparticle Composite for Photocatalytic Water Splitting. <b>2016</b> , 1, 2071-2077	5
1414 Graphene quantum dots derived from carbon fibers for oxidation of dopamine. <b>2016</b> , 31, 1294-1297	10
Bottom-Up Fabrication of Single-Layered Nitrogen-Doped Graphene Quantum Dots through Intermolecular Carbonization Arrayed in a 2D Plane. <b>2016</b> , 22, 272-8	46
Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. <b>2016</b> , 183, 1591-1599	12
Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots. <b>2016</b> , 48, 1	11
1410 Fluorometric detection of tyrosine and cysteine using graphene quantum dots. <b>2016</b> , 6, 33197-33204	4 20
Mn(2+)-doped NaYF4:Yb/Er upconversion nanoparticle-based electrochemiluminescent aptasensor for bisphenol A. <b>2016</b> , 408, 3823-31	31
1408 Single layer nano graphene platelets derived from graphite nanofibres. <b>2016</b> , 8, 8810-8	18
1407 Graphene-based nanomaterials for bioimaging. <b>2016</b> , 105, 242-254	237
1406 Dopamine carbon nanodots as effective photothermal agents for cancer therapy. <b>2016</b> , 6, 54087-540	091 21
Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <b>2016</b> , 3, 8	24
Graphene oxide derived graphene quantum dots with different photoluminescence properties and peroxidase-like catalytic activity. <b>2016</b> , 6, 50609-50617	56
1403 Graphene Quantum Dots for Theranostics and Bioimaging. <b>2016</b> , 33, 2337-57	97
Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <b>2016</b> , 8, e272-e272	78
Elucidating Quantum Confinement in Graphene Oxide Dots Based On Excitation-Wavelength-Independent Photoluminescence. <b>2016</b> , 7, 2087-92	115

1400	Facile hydrothermal method to prepare graphene quantum dots from graphene oxide with different photoluminescences. <b>2016</b> , 6, 40422-40426	22
1399	Multifunctional N,S co-doped carbon quantum dots with pH- and thermo-dependent switchable fluorescent properties and highly selective detection of glutathione. <b>2016</b> , 104, 169-178	225
1398	A facile and green method towards coal-based fluorescent carbon dots with photocatalytic activity. <b>2016</b> , 378, 402-407	103
1397	Target-Activated Modulation of Dual-Color and Two-Photon Fluorescence of Graphene Quantum Dots for in Vivo Imaging of Hydrogen Peroxide. <b>2016</b> , 88, 4833-40	61
1396	Paper-Based Device for Colorimetric and Photoelectrochemical Quantification of the Flux of H2O2 Releasing from MCF-7 Cancer Cells. <b>2016</b> , 88, 5369-77	92
1395	Nitrogen-rich functional groups carbon nanoparticles based fluorescent pH sensor with broad-range responding for environmental and live cells applications. <b>2016</b> , 82, 233-9	40
1394	CdTe quantum dots: aqueous phase synthesis, stability studies and protein conjugation for development of biosensors. <b>2016</b> ,	4
1393	Effects of optical and magnetic fields on the electrical characteristics of colloidal graphene quantum dots. <b>2016</b> , 6, 40577-40584	2
1392	Time-efficient syntheses of nitrogen and sulfur co-doped graphene quantum dots with tunable luminescence and their sensing applications. <b>2016</b> , 6, 36554-36560	23
1391	Graphene quantum dots and their possible energy applications: A review. <b>2016</b> , 16, 1192-1201	133
1390	Luminescent properties and sensing performance of a carbon quantum dot encapsulated mesoporous silica/polyacrylonitrile electrospun nanofibrous membrane. <b>2016</b> , 51, 6801-6811	22
1389	Facile synthesis of fluorescent graphene quantum dots from coffee grounds for bioimaging and sensing. <b>2016</b> , 300, 75-82	151
1388	Graphene quantum dots as smart probes for biosensing. <b>2016</b> , 8, 4001-4016	91
1387	Direct photodissociation of toluene molecules to photoluminescent carbon dots under pulsed laser irradiation. <b>2016</b> , 105, 416-423	19
1386	Graphene aerogel-supported and graphene quantum dots-modified I-MnOOH nanotubes as a highly efficient electrocatalyst for oxygen reduction reaction. <b>2016</b> , 6, 43116-43126	19
1385	Surface plasmon enhancement of photoluminescence in photo-chemically synthesized graphene quantum dot and Au nanosphere. <b>2016</b> , 9, 1866-1875	25
1384	Synergistically enhanced activity of graphene quantum dots/graphene hydrogel composites: a novel all-carbon hybrid electrocatalyst for metal/air batteries. <b>2016</b> , 8, 11398-402	51

1382	Controlling carbon nanodot fluorescence for optical biosensing. <b>2016</b> , 141, 4170-80	13
1381	The immobilization of graphene quantum dots by one-step electrodeposition and its application in peroxydisulfate electrochemiluminescence. <b>2016</b> , 775, 1-7	14
1380	High Yield Synthesis of Aspect Ratio Controlled Graphenic Materials from Anthracite Coal in Supercritical Fluids. <b>2016</b> , 10, 5293-303	51
1379	Carbon dots as fluorescent sensor for detection of explosive nitrocompounds. <b>2016</b> , 106, 171-178	93
1378	Graphene quantum dot soil moisture sensor. <b>2016</b> , 233, 582-590	41
1377	Facile Synthesis of N-Doped Carbon Dots as a New Matrix for Detection of Hydroxy-Polycyclic Aromatic Hydrocarbons by Negative-Ion Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <b>2016</b> , 8, 12976-84	72
1376	A fluorometric assay platform for caffeic acid detection based on the G-quadruplex/hemin DNAzyme. <b>2016</b> , 141, 4456-62	23
1375	Graphene quantum dots from fishbone carbon nanofibers. <b>2016</b> , 6, 48504-48514	14
1374	Application of graphene in dye and quantum dots sensitized solar cell. <b>2016</b> , 137, 531-550	28
1373	Crossover between Anti- and Pro-oxidant Activities of Graphene Quantum Dots in the Absence or Presence of Light. <b>2016</b> , 10, 8690-9	136
1372	Intense multi-state visible absorption and full-color luminescence of nitrogen-doped carbon quantum dots for blue-light-excitable solid-state-lighting. <b>2016</b> , 4, 9027-9035	89
1371	Graphene quantum dots with Zn2+ and Ni2+ conjugates can cleave supercoiled DNA. <b>2016</b> , 69, 3395-3402	5
1370	A Strategy for One-Pot Conversion of Organic Pollutants into Useful Hydrocarbons through Coupling Photodegradation of MB with Photoreduction of CO2. <b>2016</b> , 6, 6861-6867	96
1369	Rapid solid-phase microwave synthesis of highly photoluminescent nitrogen-doped carbon dots for Fe(3+) detection and cellular bioimaging. <b>2016</b> , 27, 395706	45
1368	Single-Layered and Single-Crystalline Graphene Quantum Dots from 2D Polycyclic Compounds. <b>2016</b> , 33, 811-817	9
1367	The toxicity of graphene quantum dots. <b>2016</b> , 6, 89867-89878	88
1366	Graphene Quantum Dots. <b>2016</b> , 29-65	
1365	Oxygen Electroreduction Catalyzed by Palladium Nanoparticles Supported on Nitrogen-Doped Graphene Quantum Dots: Impacts of Nitrogen Dopants. <b>2016</b> , 4, 6580-6589	37

1364	Increment of the FRET efficiency between carbon dots and photosensitizers for enhanced photodynamic therapy. <b>2016</b> , 6, 101447-101451	24
1363	Field emission of carbon quantum dots synthesized from a single organic solvent. <b>2016</b> , 27, 445707	3
1362	Optical Properties of Graphene Oxide. <b>2016</b> , 147-174	4
1361	Field-Effect Transistors, Sensors and Transparent Conductive Films. <b>2016</b> , 231-256	1
1360	Modulating the Photocatalytic Activity of Graphene Quantum Dots via Atomic Tailoring for Highly Enhanced Photocatalysis under Visible Light. <b>2016</b> , 26, 8211-8219	78
1359	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. <b>2016</b> , 6, 97990-97994	39
1358	New Generation Cadmium-Free Quantum Dots for Biophotonics and Nanomedicine. <b>2016</b> , 116, 12234-12327	369
1357	Graphene Network. <b>2016</b> , 83-104	
1356	Solvothermal method to prepare graphene quantum dots by hydrogen peroxide. <b>2016</b> , 60, 204-208	54
1355	Blue photoluminescent carbon nanodots from limeade. <b>2016</b> , 69, 914-21	41
1354	Dual-Mode Luminescent Nanopaper Based on Ultrathin g-C3N4 Nanosheets Grafted with Rare-Earth Upconversion Nanoparticles. <b>2016</b> , 8, 21555-62	36
1353	Free-Radical-Assisted Rapid Synthesis of Graphene Quantum Dots and Their Oxidizability Studies. <b>2016</b> , 32, 8641-9	35
1352	Outright Green Synthesis of Fluorescent Carbon Dots from Eutrophic Algal Blooms for In Vitro Imaging. <b>2016</b> , 4, 4724-4731	138
1351	Theory of optical properties of graphene quantum dots. <b>2016</b> , 10, 102-110	16
1350	Photosensitive ZnO-Graphene Quantum Dot Hybrid Nanocomposite for Optoelectronic Applications. <b>2016</b> , 1, 1503-1509	10
1349	Highly Sensitive and Selective Detection of Nanomolar Ferric Ions Using Dopamine Functionalized Graphene Quantum Dots. <b>2016</b> , 8, 21002-10	131
1348	Fluorescent carbon nanodots for targeted in vitro cancer cell imaging. <b>2016</b> , 4, 71-77	43
1347	Quasi-noble-metal graphene quantum dots deposited stannic oxide with oxygen vacancies: Synthesis and enhanced photocatalytic properties. <b>2016</b> , 481, 13-9	40

## (2016-2016)

1346	ablation. <b>2016</b> , 18, 22599-605	39
1345	A fluorometric assay for tyrosinase activity and its inhibitor screening based on graphene quantum dots. <b>2016</b> , 6, 72670-72675	27
1344	Effects of graphene quantum dots on linear and nonlinear optical behavior of malignant ovarian cells. <b>2016</b> , 10, 036014	3
1343	Graphene Quantum Sheets with Multiband Emission: Unravelling the Molecular Origin of Graphene Quantum Dots. <b>2016</b> , 120, 21678-21684	28
1342	Challenges in Liquid-Phase Exfoliation, Processing, and Assembly of Pristine Graphene. <b>2016</b> , 28, 8796-8818	97
1341	Facile and simultaneous synthesis of graphene quantum dots and reduced graphene oxide for bio-imaging and supercapacitor applications. <b>2016</b> , 40, 9111-9124	35
1340	Edge or interface effect on bandgap openings in graphene nanostructures: A thermodynamic approach. <b>2016</b> , 326, 1-33	15
1339	Orbital hybridization mechanism for the enhanced photoluminescence in edge-functionalized sp 2 carbon clusters. <b>2016</b> , 109, 418-427	6
1338	Green synthesis of highly fluorescent carbon quantum dots from sugarcane bagasse pulp. <b>2016</b> , 390, 435-443	142
1337	Platinum/nitrogen-doped carbon nanoparticles synthesized in nitrogen-doped carbon quantum dots aqueous solution for methanol electro-oxidation. <b>2016</b> , 213, 332-340	17
1336	Influence of chemical states of doped nitrogen on photoluminescence intensity of hydrothermally synthesized carbon dots. <b>2016</b> , 180, 123-131	23
1335	CH tailored single-layer and single-crystalline graphene quantum dots. <b>2016</b> , 18, 25002-25009	15
1334	Tunable optical properties of OH-functionalised graphene quantum dots. <b>2016</b> , 4, 8429-8438	27
1333	Chemically clean single-step oxido-reductive synthesis of green luminescent graphene quantum dots as impending electrocatalyst. <b>2016</b> , 109, 517-528	20
1332	Large-scale synthesis of defect-selective graphene quantum dots by ultrasonic-assisted liquid-phase exfoliation. <b>2016</b> , 109, 373-383	67
1331	Modifying the Size of Ultrasound-Induced Liquid-Phase Exfoliated Graphene: From Nanosheets to Nanodots. <b>2016</b> , 10, 10768-10777	45
1330	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. <b>2016</b> , 4, 16383-16393	51
1329	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. <b>2016</b> , 11, 565-586	421

1328	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. <b>2016</b> , 108, 461-470	17
1327	Energy conversion of sub-band-gap light using naked carbon nanodots and rhodamine B. <b>2016</b> , 26, 479-487	7
1326	Effect of modified graphene quantum dots on photocatalytic degradation property. 2016, 69, 81-85	22
1325	Anomalous Light Emission and Wide Photoluminescence Spectra in Graphene Quantum Dot: Quantum Confinement from Edge Microstructure. <b>2016</b> , 7, 2888-92	22
1324	Role of C-N Configurations in the Photoluminescence of Graphene Quantum Dots Synthesized by a Hydrothermal Route. <b>2016</b> , 6, 21042	171
1323	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. <b>2016</b> , 6, 24205	53
1322	Facile synthesis of multi-responsive functional graphene quantum dots for sensing metal cations. <b>2016</b> , 6, 103006-103011	10
1321	Enhanced photoelectrochemical aptasensing platform for TXNDC5 gene based on exciton energy transfer between NCQDs and TiO2 nanorods. <b>2016</b> , 6, 19202	5
1320	Graphene quantum dots: recent progress in preparation and fluorescence sensing applications. <b>2016</b> , 6, 110775-110788	87
1319	Toxicity of graphene-family nanoparticles: a general review of the origins and mechanisms. <b>2016</b> , 13, 57	355
1318	High-Purity Amino-Functionalized Graphene Quantum Dots Derived from Graphene Hydrogel. <b>2016</b> , 11, 1650138	1
1317	Functionalization of Carbon Nanoparticles and Defunctionalization II oward Structural and Mechanistic Elucidation of Carbon Quantum ID ots. <b>2016</b> , 120, 25604-25611	44
1316	Simple Approach to Synthesize Amino-Functionalized Carbon Dots by Carbonization of Chitosan. <b>2016</b> , 6, 31100	101
1315	Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. <b>2016</b> , 6, 32401	27
1314	One-step preparation of carbon dot-grafted trisodium citrate dihydrate for tunable photoluminescence and white light-emitting diodes. <b>2016</b> , 6, 104724-104730	3
1313	Recent Advances in Soft Materials to Build and Functionalize Hard Structures for Electrochemical Energy Storage and In situ Electrochemical Molecular Biosensing. <b>2016</b> , 26, 8824-8853	10
1312	Graphene quantum dots as the electrolyte for solid state supercapacitors. <b>2016</b> , 6, 19292	34
1311	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. <b>2016</b> , 6, 19028	77

1310	Camphor-mediated synthesis of carbon nanoparticles, graphitic shell encapsulated carbon nanocubes and carbon dots for bioimaging. <b>2016</b> , 6, 21286	42
1309	Giant Two-photon Absorption in Circular Graphene Quantum Dots in Infrared Region. <b>2016</b> , 6, 33260	9
1308	Revealing the underlying absorption and emission mechanism of nitrogen doped graphene quantum dots. <b>2016</b> , 8, 19376-19382	49
1307	Photostable epoxy polymerized carbon quantum dots luminescent thin films and the performance study. <b>2016</b> , 6, 767-771	21
1306	Formation mechanism of graphene quantum dots and their edge state conversion probed by photoluminescence and Raman spectroscopy. <b>2016</b> , 4, 10852-10865	114
1305	Intense, stable and excitation wavelength-independent photoluminescence emission in the blue-violet region from phosphorene quantum dots. <b>2016</b> , 6, 27307	63
1304	Fullerene-Structural Carbon-Based Dots from C60 Molecules and their Optical Properties. <b>2016</b> , 33, 916-923	5
1303	Quasi-Continuously Tuning the Size of Graphene Quantum Dots via an Edge-Etching Mechanism. <b>2016</b> , 1, 1459-1467	2
1302	Graphene Quantum Sheet Catalyzed Silicon Photocathode for Selective CO2 Conversion to CO. <b>2016</b> , 26, 233-242	66
1301	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. <b>2016</b> , 28, 5255-61	95
1300	Chemical Functionalisation and Photoluminescence of Graphene Quantum Dots. <b>2016</b> , 22, 8198-206	47
1299	Understanding the Photoluminescence Mechanism of Nitrogen-Doped Carbon Dots by Selective Interaction with Copper Ions. <b>2016</b> , 17, 2315-21	35
1298	Recent advances in experimental basic research on graphene and graphene-based nanostructures. <b>2016</b> , 7, 023001	3
1297	Quantum-confined bandgap narrowing of TiO2 nanoparticles by graphene quantum dots for visible-light-driven applications. <b>2016</b> , 52, 9208-11	51
1296	Graphene quantum dots from graphite by liquid exfoliation showing excitation-independent emission, fluorescence upconversion and delayed fluorescence. <b>2016</b> , 18, 21278-87	77
1295	Silicon solar cell efficiency improvement employing the photoluminescent, down-shifting effects of carbon and CdTe quantum dots. <b>2016</b> , 5, 1	11
1294	Brianyoungite/Graphene Oxide Coordination Composites for High-Performance Cu(2+) Adsorption and Tunable Deep-Red Photoluminescence. <b>2016</b> , 8, 15848-54	18
1293	Carbon Nanoparticles and Nanostructures. <b>2016</b> ,	14

1292	Carbon Based Dots and Their Luminescent Properties and Analytical Applications. 2016, 161-238	8
1291	Enhanced photoelectrochemical cytosensing of fibroblast-like synoviocyte cells based on visible light-activated ox-GQDs and carboxylated g-CN sensitized TiO nanorods. <b>2016</b> , 4, 4612-4619	13
1290	Highly transparent and flexible supercapacitors using graphene-graphene quantum dots chelate. <b>2016</b> , 26, 746-754	141
1289	Large scale production of graphene quantum dots through the reaction of graphene oxide with sodium hypochlorite. <b>2016</b> , 6, 54644-54648	15
1288	Adsorption of toxic carbamate pesticide oxamyl from liquid phase by newly synthesized and characterized graphene quantum dots nanomaterials. <b>2016</b> , 478, 430-8	53
1287	Structural diversity of graphene materials and their multifarious roles in heterogeneous photocatalysis. <b>2016</b> , 11, 351-372	247
1286	Sensitive determination of tannic acid using blue luminescent graphene quantum dots as fluorophore. <b>2016</b> , 6, 59900-59906	11
1285	Graphene quantum dots decorated with Fe3O4 nanoparticles/functionalized multiwalled carbon nanotubes as a new sensing platform for electrochemical determination of L-DOPA in agricultural products. <b>2016</b> , 8, 5861-5868	20
1284	Molecularly Designed, Nitrogen-Functionalized Graphene Quantum Dots for Optoelectronic Devices. <b>2016</b> , 28, 4632-8	175
1283	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. <b>2016</b> , 12, 994-9	49
1282	Highly sensitive and flexible ammonia sensor based on S and N co-doped graphene quantum dots/polyaniline hybrid at room temperature. <b>2016</b> , 229, 239-248	139
1281	Preparation of graphene oxide and polymer-like quantum dots and their one- and two-photon induced fluorescence properties. <b>2016</b> , 18, 4800-6	39
1280	A green synthesis of highly fluorescent nitrogen-doped graphene quantum dots for the highly sensitive and selective detection of mercury(II) ions and biothiols. <b>2016</b> , 8, 1565-1571	50
1279	Graphene quantum dots modified glassy carbon electrode via electrostatic self-assembly strategy and its application. <b>2016</b> , 190, 455-462	39
1278	Graphene oxide films, fibers, and membranes. <b>2016</b> , 5,	30
1277	Two-dimensional layered material/silicon heterojunctions for energy and optoelectronic applications. <b>2016</b> , 9, 72-93	44
1276	Aptamer induced assembly of fluorescent nitrogen-doped carbon dots on gold nanoparticles for sensitive detection of AFB1. <b>2016</b> , 78, 23-30	159
1275	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. <b>2016</b> , 187, 249-255	60

1274	Oxygen reduction catalyzed by nanocomposites based on graphene quantum dots-supported copper nanoparticles. <b>2016</b> , 41, 1559-1567	30
1273	A review on syntheses, properties, characterization and bioanalytical applications of fluorescent carbon dots. <b>2016</b> , 183, 519-542	386
1272	Enhanced photovoltaic performance of inverted polymer solar cells utilizing versatile chemically functionalized ZnO@graphene quantum dot monolayer. <b>2016</b> , 20, 221-232	40
1271	The dual roles of functional groups in the photoluminescence of graphene quantum dots. <b>2016</b> , 8, 7449-58	97
1270	Analytical applications of chemiluminescence systems assisted by carbon nanostructures. <b>2016</b> , 80, 387-415	45
1269	Full-Color Light-Emitting Carbon Dots with a Surface-State-Controlled Luminescence Mechanism. <b>2016</b> , 10, 484-91	1381
1268	Functionalized carbon nanoparticles: Syntheses and applications in optical bioimaging and energy conversion. <b>2016</b> , 320-321, 66-81	100
1267	Graphene and its analogues. <b>2016</b> , 5,	4
1266	Advantages of nitrogen-doped graphene quantum dots as a green sensitizer with ZnO nanorod based photoanodes for solar energy conversion. <b>2016</b> , 769, 48-52	54
1265	Quantum Dots (QDs) for Tumor Targeting Theranostics. <b>2016</b> , 85-141	
1264	Synthesis and Characterisation of Fluorescent Carbon Nanodots Produced in Ionic Liquids by Laser Ablation. <b>2016</b> , 22, 138-43	64
1263	Simple and Cost-Effective Synthesis of Fluorescent Graphene Quantum Dots from Honey: Application as Stable Security Ink and White-Light Emission. <b>2016</b> , 33, 70-74	43
1262	Highly selective dopamine sensor based on graphene quantum dots self-assembled monolayers modified electrode. <b>2016</b> , 767, 84-90	46
1261	Facile and Purification-Free Synthesis of Nitrogenated Amphiphilic Graphitic Carbon Dots. <b>2016</b> , 28, 1481-148	<b>8</b> 56
1260	A sensitive enzyme-free hydrogen peroxide sensor based on a chitosan@raphene quantum dot/silver nanocube nanocomposite modified electrode. <b>2016</b> , 8, 2448-2455	21
1259	Efficient synthesis of rice based graphene quantum dots and their fluorescent properties. <b>2016</b> , 6, 23518-235	2 <del>4</del> 1
1258	Insight into the effect of functional groups on visible-fluorescence emissions of graphene quantum dots. <b>2016</b> , 4, 2235-2242	34
1257	High quantum yield graphene quantum dots decorated TiO2 nanotubes for enhancing photocatalytic activity. <b>2016</b> , 375, 230-241	112

1256	Graphene quantum dot-decorated mesoporous silica nanoparticles for high aspirin loading capacity and its pH-triggered release. <b>2016</b> , 8, 2561-2567	16
1255	Size-dependent two-photon absorption in circular graphene quantum dots. <b>2016</b> , 24, 2877-84	9
1254	Trimethylamine sensing properties of graphene quantum Dots/Fe2O3 composites. <b>2016</b> , 237, 284-291	29
1253	Intrinsic magnetic properties of plant leaf-derived graphene quantum dots. <b>2016</b> , 170, 110-113	6
1252	Highly Selective Fluorescence Determination of the Hematin Level in Human Erythrocytes with No Need for Separation from Bulk Hemoglobin. <b>2016</b> , 88, 3935-44	20
1251	Synthesis of blue-photoluminescent graphene quantum dots/polystyrenic anion-exchange resin for Fe(III) detection. <b>2016</b> , 372, 145-151	27
1250	Graphene quantum dot modified glassy carbon electrode for the determination of doxorubicin hydrochloride in human plasma. <b>2016</b> , 6, 235-241	83
1249	Facile and green synthesis of fluorescent carbon dots from onion waste and their potential applications as sensor and multicolour imaging agents. <b>2016</b> , 6, 28633-28639	137
1248	Green synthesis of stable and biocompatible fluorescent carbon dots from peanut shells for multicolor living cell imaging. <b>2016</b> , 40, 1698-1703	100
1247	Anomalous Size Dependence of Optical Properties in Black Phosphorus Quantum Dots. <b>2016</b> , 7, 370-5	78
1246	Chiral Graphene Quantum Dots. <b>2016</b> , 10, 1744-55	216
1245	Microwave-assisted synthesis of N,P-doped carbon dots for fluorescent cell imaging. <b>2016</b> , 183, 821-826	84
1244	Effect of Lateral Size of Graphene Quantum Dots on Their Properties and Application. <b>2016</b> , 8, 2104-10	77
1243	Graphene oxide-based nanomaterials for efficient photoenergy conversion. <b>2016</b> , 4, 2014-2048	61
1242	Graphene Quantum Dots Produced by Microfluidization. <b>2016</b> , 28, 21-24	57
1241	Large-Scale and Controllable Synthesis of Graphene Quantum Dots from Rice Husk Biomass: A Comprehensive Utilization Strategy. <b>2016</b> , 8, 1434-9	162
1240	Bioresponsive carbon nano-gated multifunctional mesoporous silica for cancer theranostics. <b>2016</b> , 8, 4537-46	55
1239	Chemically doped fluorescent carbon and graphene quantum dots for bioimaging, sensor, catalytic and photoelectronic applications. <b>2016</b> , 8, 2532-43	356

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1238	Photoluminescent nanosensors capped with quantum dots for high-throughput determination of trace contaminants: Strategies for enhancing analytical performance. <b>2016</b> , 78, 36-47	15
1237	Graphene quantum dots FRET based sensor for early detection of heart attack in human. <b>2016</b> , 79, 495-9	86
1236	Antibacterial Property of Graphene Quantum Dots (Both Source Material and Bacterial Shape Matter). <b>2016</b> , 8, 20-5	94
1235	Direct synthesis of graphene quantum dots from multilayer graphene flakes through grinding assisted co-solvent ultrasonication for all-printed resistive switching arrays. <b>2016</b> , 6, 5068-5078	35
1234	Steering graphene quantum dots in living cells: lighting up the nucleolus. <b>2016</b> , 4, 779-784	30
1233	Recent advances in carbon-based dots for electroanalysis. <b>2016</b> , 141, 2619-28	18
1232	Graphene quantum dots prepared from chemical exfoliation of multiwall carbon nanotubes: An efficient photocatalyst promoter. <b>2016</b> , 74, 104-109	40
1231	A facile and one-step ethanol-thermal synthesis of MoS quantum dots for two-photon fluorescence imaging. <b>2016</b> , 4, 27-31	82
1230	Sustainable carbon nanomaterials: Recent advances and its applications in energy and environmental remediation. <b>2016</b> , 4, 835-856	59
1229	Nitrogen-assisted electroless assembling of 3D nanodendrites consisting of Pd and N-doped carbon nanoparticles as bifunctional catalysts. <b>2016</b> , 18, 2115-2121	28
1228	Preparation of carbon dots by non-focusing pulsed laser irradiation in toluene. <b>2016</b> , 52, 819-22	62
1227	Boron-doped carbon nanoparticles: Size-independent color tunability from red to blue and bioimaging applications. <b>2016</b> , 96, 166-173	51
1226	Unravelling the Multiple Emissive States in Citric-Acid-Derived Carbon Dots. <b>2016</b> , 120, 1252-1261	187
1225	Tunable multicolor carbon dots prepared from well-defined polythiophene derivatives and their emission mechanism. <b>2016</b> , 8, 729-34	150
1224	Facile synthesis of nitrogen and sulfur co-doped carbon dots and application for Fe(III) ions detection and cell imaging. <b>2016</b> , 223, 689-696	148
1223	Size controllable preparation of graphitic quantum dots and their photoluminescence behavior. <b>2016</b> , 162, 56-59	2
1222	A photoelectrochemical biosensor for fibroblast-like synoviocyte cell using visible light-activated NCQDs sensitized-ZnO/CH3NH3PbI3 heterojunction. <b>2016</b> , 77, 330-8	32
1221	Thermal reduction effects on one- and two-photon luminescence in graphene quantum dots. <b>2016</b> , 163, 187-191	11

1220	Nano Devices and Circuit Techniques for Low-Energy Applications and Energy Harvesting. 2016,	3
1219	Graphene and Two-Dimensional Transition Metal Dichalcogenide Materials for Energy-Related Applications. <b>2016</b> , 253-291	
1218	Photoluminescent and superparamagnetic reduced graphene oxidelion oxide quantum dots for dual-modality imaging, drug delivery and photothermal therapy. <b>2016</b> , 97, 54-70	79
1217	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. <b>2017</b> , 89, 187-200	82
1216	2-Dimensional graphene as a route for emergence of additional dimension nanomaterials. <b>2017</b> , 89, 8-27	25
1215	Microwave-assisted one-pot conversion from deoiled asphalt to green fluorescent graphene quantum dots and their interfacial properties. <b>2017</b> , 38, 769-774	9
1214	Self-assembling reduced graphene quantum dots on hematite photoanode for passivating surface states toward significantly improved water splitting. <b>2017</b> , 42, 7158-7165	16
1213	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. <b>2017</b> , 6, 259-267	74
1212	Synthesis, properties and biomedical applications of carbon-based quantum dots: An updated review. <b>2017</b> , 87, 209-222	299
1211	Production of graphene quantum dots by ultrasound-assisted exfoliation in supercritical CO/HO medium. <b>2017</b> , 37, 120-127	44
<b>121</b> 0	Coral-Shaped MoS Decorated with Graphene Quantum Dots Performing as a Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <b>2017</b> , 9, 3653-3660	72
1209	A bio-chemical application of N-GQDs and g-CN QDs sensitized TiO nanopillars for the quantitative detection of pcDNA3-HBV. <b>2017</b> , 91, 456-464	50
1208	Highly Porous Carbon with Graphene Nanoplatelet Microstructure Derived from Biomass Waste for High-Performance Supercapacitors in Universal Electrolyte. <b>2017</b> , 1, 1600011	72
1207	Aggregation Kinetics and Self-Assembly Mechanisms of Graphene Quantum Dots in Aqueous Solutions: Cooperative Effects of pH and Electrolytes. <b>2017</b> , 51, 1364-1376	71
1206	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. <b>2017</b> , 117, 1826-1914	333
1205	Drug-Derived Bright and Color-Tunable N-Doped Carbon Dots for Cell Imaging and Sensitive Detection of Fe in Living Cells. <b>2017</b> , 9, 7399-7405	206
1204	Terbium-Aspartic Acid Nanocrystals with Chirality-Dependent Tunable Fluorescent Properties. <b>2017</b> , 11, 1973-1981	16
1203	Heterogeneity in the fluorescence of graphene and graphene oxide quantum dots. <b>2017</b> , 184, 871-878	33

1202	Review on Carbon Dots and Their Applications. <b>2017</b> , 45, 139-150	193
1201	Synthesis and characterization of graphene quantum dots/CoNiAl-layered double-hydroxide nanocomposite: Application as a glucose sensor. <b>2017</b> , 521, 31-39	53
1200	Graphene quantum dot antennas for high efficiency FEster resonance energy transfer based dye-sensitized solar cells. <b>2017</b> , 343, 39-46	29
1199	Continuous Films of Self-Assembled Graphene Quantum Dots for n-Type Doping of Graphene by UV-Triggered Charge Transfer. <b>2017</b> , 13, 1603142	7
1198	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. <b>2017</b> , 207, 429-437	175
1197	Cu(I)-Doped carbon quantum dots with zigzag edge structures for highly efficient catalysis of azideਬlkyne cycloadditions. <b>2017</b> , 19, 1494-1498	52
1196	Fluorescent spongy carbon nanoglobules derived from pineapple juice: A potential sensing probe for specific and selective detection of chromium (VI) ions. <b>2017</b> , 43, 7011-7019	31
1195	Biosensing platform for the detection of uric acid based on graphene quantum dots and G-quadruplex/hemin DNAzyme. <b>2017</b> , 965, 96-102	40
1194	Graphene quantum dot-based theranostic agents for active targeting of breast cancer. <b>2017</b> , 7, 11420-11427	70
1193	Production of yellow-emitting carbon quantum dots from fullerene carbon soot. <b>2017</b> , 60, 141-150	34
1192	N-doped graphene quantum dots as a novel highly-efficient matrix for the analysis of perfluoroalkyl sulfonates and other small molecules by MALDI-TOF MS. <b>2017</b> , 9, 2014-2020	12
1191	The optimum parameters to synthesize bright and stable graphene quantum dots by hydrothermal method. <b>2017</b> , 28, 6493-6497	10
1190	The Application of Graphene in Biosensors. <b>2017</b> , 299-329	1
1189	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. <b>2017</b> , 11, 76-86	56
1188	Unique properties of graphene quantum dots and their applications in photonic/electronic devices. <b>2017</b> , 50, 103002	53
1187	Ultrasensitive Photoelectrochemical Biosensing of Cell Surface N-Glycan Expression Based on the Enhancement of Nanogold-Assembled Mesoporous Silica Amplified by Graphene Quantum Dots and Hybridization Chain Reaction. <b>2017</b> , 9, 6670-6678	72
1186	A novel turn-on fluorescent strategy for sensing ascorbic acid using graphene quantum dots as fluorescent probe. <b>2017</b> , 92, 229-233	93
1185	Synthesis of white-light-emitting graphene quantum dots via a one-step reduction and their interfacial characteristics-dependent luminescence properties. <b>2017</b> , 4, 712-718	34

1184	Effects of long-range disorder and electronic interactions on the optical properties of graphene quantum dots. <b>2017</b> , 95,	7
1183	Multi-functional nitrogen self-doped graphene quantum dots for boosting the photovoltaic performance of BHJ solar cells. <b>2017</b> , 34, 36-46	33
1182	From Graphite to Graphene Oxide and Graphene Oxide Quantum Dots. <b>2017</b> , 13, 1601001	43
1181	Multicolor Functional Carbon Dots via One-Step Refluxing Synthesis. <b>2017</b> , 2, 354-363	89
1180	Green, Rapid, and Universal Preparation Approach of Graphene Quantum Dots under Ultraviolet Irradiation. <b>2017</b> , 9, 14470-14477	76
1179	Extremely enhanced generation of reactive oxygen species for oxidation of pollutants from peroxymonosulfate induced by a supported copper oxide catalyst. <b>2017</b> , 322, 546-555	68
1178	Graphene quantum dots: multifunctional nanoplatforms for anticancer therapy. <b>2017</b> , 5, 6471-6489	87
1177	Probing the Function of Solid Nanoparticle Structure under Boundary Lubrication. <b>2017</b> , 5, 4223-4233	35
1176	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteria Escherichia coli. <b>2017</b> , 28, 195501	77
1175	Structure defects assisted photocatalytic H2 production for polythiophene nanofibers. <b>2017</b> , 211, 98-105	51
1174	Coffee-Ground-Derived Quantum Dots for Aqueous Processable Nanoporous Graphene Membranes. <b>2017</b> , 5, 5360-5367	44
1173	One-step and green synthesis of nitrogen-doped carbon quantum dots for multifunctional electronics. <b>2017</b> , 7, 21969-21973	17
1172	Technical synthesis and biomedical applications of graphene quantum dots. 2017, 5, 4811-4826	120
1171	Red Emissive Sulfur, Nitrogen Codoped Carbon Dots and Their Application in Ion Detection and Theraonostics. <b>2017</b> , 9, 18549-18556	270
1170	Roles of nitrogen functionalities in enhancing the excitation-independent green-color photoluminescence of graphene oxide dots. <b>2017</b> , 9, 8256-8265	21
1169	Photoluminescent carbon quantum dot grafted silica nanoparticles directly synthesized from rice husk biomass. <b>2017</b> , 5, 4679-4689	49
1168	Nanocarbon based composite electrodes and their application in microbial fuel cells. <b>2017</b> , 5, 12673-12698	59
1167	Directional electron transfer mechanisms with graphene quantum dots as the electron donor for photodecomposition of perfluorooctane sulfonate. <b>2017</b> , 323, 406-414	27

1166	New Avenue for Appendage of Graphene Quantum Dots on Halloysite Nanotubes as Anode Materials for High Performance Supercapacitors. <b>2017</b> , 5, 4930-4940	72
1165	Thermophysical and rheological properties of water-based graphene quantum dots nanofluids. <b>2017</b> , 76, 132-140	28
1164	High-Power Graphenellarbon Nanotube Hybrid Supercapacitors. <b>2017</b> , 3, 436-446	30
1163	Photoluminescence responses of graphene quantum dots toward organic bases and an acid. <b>2017</b> , 16, 623-626	7
1162	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. <b>2017</b> , 5, 10537-10543	136
1161	Chloro-benquinone Modified on Graphene Oxide as Metal-free Catalyst: Strong Promotion of Hydroxyl Radical and Generation of Ultra-Small Graphene Oxide. <b>2017</b> , 7, 42643	14
1160	Cyto-toxicity, biocompatibility and cellular response of carbon dotsplasmonic based nano-hybrids for bioimaging. <b>2017</b> , 7, 23502-23514	96
1159	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. <b>2017</b> , 31, 359-366	90
1158	Current and future directions in electron transfer chemistry of graphene. 2017, 46, 4530-4571	101
1157	Enhancing photoluminescence of graphene quantum dots by thermal annealing of the graphite precursor. <b>2017</b> , 93, 183-193	26
1156	The luminescence profile of carbon dots synthesized from £ellulose under different acid hydrolysis conditions. <b>2017</b> , 70, 50-56	12
1155	Electrochemical sensor for discrimination tyrosine enantiomers using graphene quantum dots and I-cyclodextrins composites. <b>2017</b> , 173, 94-100	66
1154	The optical and electronic properties of graphene quantum dots with oxygen-containing groups: a density functional theory study. <b>2017</b> , 5, 5984-5993	85
1153	Carbon quantum dots from carbonized walnut shells: Structural evolution, fluorescence characteristics, and intracellular bioimaging. <b>2017</b> , 79, 473-480	77
1152	Photoluminescence of carbon dots and their applications in Hela cell imaging and Fe3+ ion detection. <b>2017</b> , 52, 9979-9989	20
1151	Strongly coupled CdS/graphene quantum dots nanohybrids for highly efficient photocatalytic hydrogen evolution: Unraveling the essential roles of graphene quantum dots. <b>2017</b> , 216, 59-69	160
1150	A ratiometric fluorescent nanosensor for the detection of silver ions using graphene quantum dots. <b>2017</b> , 253, 239-246	87
1149	Synthesis of Pyridinic-Rich N, S Co-doped Carbon Quantum Dots as Effective Enzyme Mimics. <b>2017</b> , 12, 375	39

1148	Preparation and gas-sensing properties of SnO2/graphene quantum dots composites via solvothermal method. <b>2017</b> , 52, 9441-9451	11
1147	Industrial production of ultra-stable sulfonated graphene quantum dots for Golgi apparatus imaging. <b>2017</b> , 5, 5355-5361	46
1146	Functionalization of graphene quantum dots by fluorine: Preparation, properties, application, and their mechanisms. <b>2017</b> , 110, 221901	27
1145	Unraveling the Hydrogen Evolution Reaction Active Sites in N-Functionalized Interconnected Graphene Quantum Dots. <b>2017</b> , 2, 4511-4515	6
1144	Advances in biotechnological synthetic applications of carbon nanostructured systems. <b>2017</b> , 5, 6490-6510	18
1143	Enzyme-free fluorescence sensing of catechins in green tea using bifunctional graphene quantum dots. <b>2017</b> , 9, 3525-3530	5
1142	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. <b>2017</b> , 5, 6092-6100	21
1141	Synergistic promotion of photoelectrochemical water splitting efficiency of TiO 2 nanorods using metal-semiconducting nanoparticles. <b>2017</b> , 420, 631-637	20
1140	Analytical methodology for the electro-catalytic determination of estradiol and progesterone based on graphene quantum dots and poly(sulfosalicylic acid) co-modified electrode. <b>2017</b> , 174, 243-255	46
1139	Single step hydrothermal synthesis of carbon nanodot decorated V2O5 nanobelts as hybrid conducting material for supercapacitor application. <b>2017</b> , 253, 103-112	17
1138	A bionic strategy for addressing scale-span issues in all-carbon electrocatalytic systems. <b>2017</b> , 245, 318-326	5
1137	Graphene Quantum Dots Anchored Gold Nanorods for Electrochemical Detection of Glutathione. <b>2017</b> , 2, 4744-4752	8
1136	Simultaneously fabrication of free and solidified N, S-doped graphene quantum dots via a facile solvent-free synthesis route for fluorescent detection. <b>2017</b> , 168, 269-278	49
1135	Covalent Crosslinking of Graphene Quantum Dots by McMurry Deoxygenation Coupling. <b>2017</b> , 12, 973-977	1
1134	Application of Carbon-Based Nanomaterials as Bioimaging Probe. <b>2017</b> , 129-161	
1133	Toxicology and Biosafety of Carbon Nanomaterials. <b>2017</b> , 205-229	3
1132	Different Synthesis Process of Carbon Nanomaterials for Biological Applications. 2017, 1-41	3
1131	Origin of extraordinary luminescence shift in graphene quantum dots with varying excitation energy: An experimental evidence of localized sp2 carbon subdomain. <b>2017</b> , 118, 524-530	22

1130	A metal-free composite photocatalyst of graphene quantum dots deposited on red phosphorus. <b>2017</b> , 60, 91-97	19
1129	Manipulation of slow and superluminal light based on a graphene nanoribbon resonator. <b>2017</b> , 71, 1	4
1128	Self-exothermic reaction prompted synthesis of single-layered graphene quantum dots at room temperature. <b>2017</b> , 53, 4958-4961	48
1127	Titanium carbide (Ti3C2Tx) MXene: A novel precursor to amphiphilic carbide-derived graphene quantum dots for fluorescent ink, light-emitting composite and bioimaging. <b>2017</b> , 118, 50-57	111
1126	Fluorescent carbon dots: facile synthesis at room temperature and its application for Fe2+ sensing. <b>2017</b> , 19, 1	22
1125	Sorting Graphene Quantum Dots by Using Aluminum Ions. <b>2017</b> , 2017, 2201-2206	3
1124	Coke-derived graphene quantum dots as fluorescence nanoquencher in DNA detection. 2017, 7, 138-143	38
1123	Luminescence origin of carbon based dots obtained from citric acid and amino group-containing molecules. <b>2017</b> , 118, 319-326	85
1122	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. <i>Nano Letters</i> , <b>2017</b> , 17, 2138-21 <b>45</b> .5	109
1121	Graphene quantum dots: effect of size, composition and curvature on their assembly. <b>2017</b> , 7, 17704-17710	27
1120	Structure and Optical Properties of Carbon Nanoparticles Generated by Laser Treatment of Graphite in Liquids. <b>2017</b> , 18, 1074-1083	26
1119	Chiral Nanoparticle as a New Efficient Antimicrobial Nanoagent. <b>2017</b> , 6, 1601011	59
1118	Carbon dots doped with heteroatoms for fluorescent bioimaging: a review. <b>2017</b> , 184, 343-368	200
1117	Effect of compressed liquid CO2 antisolvent treatment on the synthesis of hierarchically porous nanocarbon from kraft lignin. <b>2017</b> , 123, 1-10	1
1116	Ionic liquid-capped graphene quantum dots as label-free fluorescent probe for direct detection of ferricyanide. <b>2017</b> , 165, 429-435	21
1115	Multifunctional graphene quantum dots for combined photothermal and photodynamic therapy coupled with cancer cell tracking applications. <b>2017</b> , 7, 5251-5261	89
1114	Graphene Quantum Dots from Mangifera indica: Application in Near-Infrared Bioimaging and Intracellular Nanothermometry. <b>2017</b> , 5, 1382-1391	196
1113	Oxidant mediated one-step complete conversion of multi-walled carbon nanotubes to graphene quantum dots and their bioactivity against mammalian and bacterial cells. <b>2017</b> , 5, 785-796	25

1112	High photoluminescent carbon based dots with tunable emission color from orange to green. <b>2017</b> , 9, 1028-1032	40
1111	Graphene quantum dots prepared from glucose as optical sensor for glucose. <b>2017</b> , 184, 110-116	122
1110	Heat-Resistant and Microwaveable Poly(lactic acid) by Quantum-Dot-Promoted Stereocomplexation. <b>2017</b> , 5, 11607-11617	17
1109	Spotlighting graphene quantum dots and beyond: Synthesis, properties and sensing applications. <b>2017</b> , 9, 350-371	63
1108	Sensitive pH probe developed with water-soluble fluorescent carbon dots from chocolate by one-step hydrothermal method. <b>2017</b> , 97, 1119-1131	12
1107	The acetic acid gas sensing properties of graphene quantum dots (GQDs)InO nanocomposites prepared by hydrothermal method. <b>2017</b> , 28, 19164-19173	9
1106	Preparation of Carbon Dots and Their Application in Food Analysis as Signal Probe. 2017, 45, 1571-1581	23
1105	Synthesis of multicolor photoluminescent carbon quantum dots functionalized with hydrocarbons of different chain lengths. <b>2017</b> , 32, 327-337	16
1104	Thioacetamide-derived nitrogen and sulfur co-doped carbon nanoparticles used for label-free detection of copper(II) ions and bioimaging applications. <b>2017</b> , 41, 13742-13746	8
1103	Highly Efficient Fluorescent Carbon Quantum Dots: Synthesis, Properties and Applications. <b>2017</b> , 81-111	
1102	Insight into the multiple quasi-molecular states in ethylenediamine reduced graphene nanodots. <b>2017</b> , 19, 28653-28665	8
1101	Graphene Quantum Dots for Bioimaging and Cancer Therapy. <b>2017</b> , 139-161	
1100	Facile conversion of coal tar to orange fluorescent carbon quantum dots and their composite encapsulated by liposomes for bioimaging. <b>2017</b> , 41, 14444-14451	23
1099	Understanding the Selective Detection of Fe Based on Graphene Quantum Dots as Fluorescent Probes: The K of a Metal Hydroxide-Assisted Mechanism. <b>2017</b> , 89, 12054-12058	97
1098	Highly Efficient Moisture-Triggered Nanogenerator Based on Graphene Quantum Dots. <b>2017</b> , 9, 38170-38175	54
1097	Differentiating the impact of nitrogen chemical states on optical properties of nitrogen-doped graphene quantum dots. <b>2017</b> , 7, 48263-48267	28
1096	Hydrothermal route to graphene quantum dots: Effects of precursor and temperature. <b>2017</b> , 79, 112-118	35
1095	Fluorescent carbon dots: rational synthesis, tunable optical properties and analytical applications. <b>2017</b> , 7, 40973-40989	120

1094	Long-wavelength, multicolor, and white-light emitting carbon-based dots: Achievements made, challenges remaining, and applications. <b>2017</b> , 124, 429-472	208
1093	Gram-Scale Synthesis and Kinetic Study of Bright Carbon Dots from Citric Acid and via a Microwave-Assisted Method. <b>2017</b> , 2, 5196-5208	43
1092	Enhanced p-type behavior in the hybrid structure of graphene quantum dots/2D-WSe2. <b>2017</b> , 111, 111603	5
1091	A facile and high-efficient approach to yellow emissive graphene quantum dots from graphene oxide. <b>2017</b> , 124, 342-347	31
1090	Purification of nitrogen-doped graphene quantum dots via the liquid I quid extraction system of tetrahydrofuran (NH4) 2SO4 I water and its application to sensitive iron (III) ions determination. <b>2017</b> , 9, 5691-5696	5
1089	A ruthenium-nitrosyl-functionalized nanoplatform for the targeting of liver cancer cells and NIR-light-controlled delivery of nitric oxide combined with photothermal therapy. <b>2017</b> , 5, 7831-7838	30
1088	Tumor Cell-Specific Nuclear Targeting of Functionalized Graphene Quantum Dots In Vivo. <b>2017</b> , 28, 2608-261	<b>9</b> 19
1087	Graphene-based nanomaterials for drug and/or gene delivery, bioimaging, and tissue engineering. <b>2017</b> , 22, 1302-1317	182
1086	The aggregation induced emission quenching of graphene quantum dots for visualizing the dynamic invasions of cobalt(ii) into living cells. <b>2017</b> , 5, 6394-6399	29
1085	A redox-modulated fluorescent strategy for the highly sensitive detection of metabolites by using graphene quantum dots. <b>2017</b> , 990, 150-156	4
1084	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. <b>2017</b> , 29, 1701704	47
1083	Size Effect on the Cytotoxicity of Layered Black Phosphorus and Underlying Mechanisms. <b>2017</b> , 13, 1701210	83
1082	Theoretical study on electronic polarizability and second hyperpolarizability of hexagonal graphene quantum dots: Effects of size, substituent, and frequency. <b>2017</b> , 122, 756-760	13
1081	2DMaterials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <b>2017</b> , 5, 1700257	51
1080	Excitation-Independent Dual-Color Carbon Dots: Surface-State Controlling and Solid-State Lighting. <b>2017</b> , 4, 2352-2358	70
1079	Full-colour carbon dots: integration of multiple emission centres into single particles. <b>2017</b> , 9, 13326-13333	19
1078	Carbon quantum dot tailored calcium alginate hydrogel for pH responsive controlled delivery of vancomycin. <b>2017</b> , 109, 359-371	51
1077	Aqueous Exfoliation of Graphite into Graphene Assisted by Sulfonyl Graphene Quantum Dots for Photonic Crystal Applications. <b>2017</b> , 9, 30797-30804	35

1076	A graphene quantum dot-assisted morinkMnO4 chemiluminescence system for the precise recognition of cypermethrin. <b>2017</b> , 41, 10668-10676	6
1075	Preparation of water-soluble graphene nanoplatelets and highly conductive films. 2017, 124, 133-141	13
1074	A new approach to flexible humidity sensors using graphene quantum dots. <b>2017</b> , 5, 8966-8973	39
1073	Sweet graphene quantum dots for imaging carbohydrate receptors in live cells. <b>2017</b> , 5, 25-32	38
1072	Infusion of Graphene Quantum Dots to Create Stronger, Tougher, and Brighter Polymer Composites. <b>2017</b> , 2, 4356-4362	36
1071	Carbon-encapsulated cobalt nanoparticles: synthesis, properties, and magnetic particle hyperthermia efficiency. <b>2017</b> , 19, 1	16
1070	Synthesis of Excitation Independent Highly Luminescent Graphene Quantum Dots through Perchloric Acid Oxidation. <b>2017</b> , 33, 14634-14642	37
1069	Rapid, Acid-Free Synthesis of High-Quality Graphene Quantum Dots for Aggregation Induced Sensing of Metal Ions and Bioimaging. <b>2017</b> , 2, 8051-8061	52
1068	Influence of Chain Length on the Self-Assembly of Poly(Eaprolactone)-Grafted Graphene Quantum Dots. <b>2017</b> , 33, 13384-13393	5
1067	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. <b>2017</b> , 9, 22332-22341	122
1066	Interaction studies of carbon nanomaterials and plasma activated carbon nanomaterials solution with telomere binding protein. <b>2017</b> , 7, 2636	16
1065	In Situ Production of Graphene-Fiber Hybrid Structures. <b>2017</b> , 9, 25474-25480	11
1064	Size effects of a graphene quantum dot modified-blocking TiO2 layer for efficient planar perovskite solar cells. <b>2017</b> , 5, 16834-16842	50
1063	A label-free fluorescence nanosensor for the determination of adrenaline based on graphene quantum dots. <b>2017</b> , 9, 4434-4438	6
1062	Increasing Cancer Therapy Efficiency through Targeting and Localized Light Activation. 2017, 9, 23400-23408	22
1061	Red, Yellow, and Blue Luminescence by Graphene Quantum Dots: Syntheses, Mechanism, and Cellular Imaging. <b>2017</b> , 9, 24846-24856	117
1060	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. <b>2017</b> , 174, 315-322	28
1059	Large-scale simultaneous synthesis of highly photoluminescent green amorphous carbon nanodots and yellow crystalline graphene quantum dots at room temperature. <b>2017</b> , 19, 3611-3617	104

1058	One-step synthesis and gas sensing properties of hierarchical Fe doped Co3O4 nanostructures. <b>2017</b> , 723, 779-786	36
1057	New paradigms for the synthesis of graphene quantum dots from sustainable bioresources. <b>2017</b> , 41, 8706-8710	12
1056	Ultrasensitive determination of 2,4,6-trinitrotoluene by exploiting the strongly enhanced electrochemiluminescence of an assembly between CdSe and graphene quantum dots and its quenching by TNT. <b>2017</b> , 184, 73-80	9
1055	Bifunctional Carbon-Dot-WS Nanorods for Photothermal Therapy and Cell Imaging. <b>2017</b> , 23, 963-969	19
1054	Cerium(III) Ion Sensing Based on Graphene Quantum Dots Fluorescent Turn-Off. <b>2017</b> , 27, 331-338	34
1053	The Roadmap of Graphene-Based Optical Biochemical Sensors. <b>2017</b> , 27, 1603918	47
1052	In-situ direct grafting of graphene quantum dots onto carbon fibre by low temperature chemical synthesis for high performance flexible fabric supercapacitor. <b>2017</b> , 10, 112-119	38
1051	Metal-Free Dual Modal Contrast Agents Based on Fluorographene Quantum Dots. <b>2017</b> , 34, 1600221	20
1050	Prolonged fluorescence lifetime of carbon quantum dots by combining with hydroxyapatite nanorods for bio-applications. <b>2017</b> , 9, 2162-2171	30
1049	Small but strong: The influence of fluorine atoms on formation and performance of graphene quantum dots using a gradient F-sacrifice strategy. <b>2017</b> , 112, 63-71	54
1048	Highly fluorescent nitrogen and sulfur co-doped graphene quantum dots for an inner filter effect-based cyanide sensor. <b>2017</b> , 241, 779-788	61
1047	Nitrogen and phosphorus co-doped graphene quantum dots as a nano-sensor for highly sensitive and selective imaging detection of nitrite in live cell. <b>2017</b> , 240, 604-612	71
1046	Room-temperature synthesis of graphene quantum dots via electron-beam irradiation and their application in cell imaging. <b>2017</b> , 309, 374-380	66
1045	A novel label-free electrochemical immunosensor based on functionalized nitrogen-doped graphene quantum dots for carcinoembryonic antigen detection. <b>2017</b> , 90, 31-38	121
1044	Integration of ammonia-plasma-functionalized graphene nanodiscs as charge trapping centers for nonvolatile memory applications. <b>2017</b> , 113, 318-324	16
1043	Facile synthesis of amine-functionalized graphene quantum dots with highly pH-sensitive photoluminescence. <b>2017</b> , 25, 704-709	20
1042	Tunable direct band gap photoluminescent organic semiconducting nanoparticles from lignite. <b>2017</b> , 7, 18012	25
1041	Preparation of Graphene Quantum Dot using Oriented Nanoparticle Catalysts. <b>2017</b> , 25, 22-25	

1040	Photoluminescence enhancement of amino-functionalized graphene quantum dots in two-dimensional optical resonators. <b>2017</b> , 25, 1444-1451	4
1039	Tuning the Photoluminescence of Graphene Quantum Dots by Photochemical Doping with Nitrogen. <b>2017</b> , 10,	29
1038	Review on the Antimicrobial Properties of Carbon Nanostructures. <b>2017</b> , 10,	229
1037	Graphene-Based Materials for Biosensors: A Review. <b>2017</b> , 17,	249
1036	Low-Cost Nanocarbon-Based Peroxidases from Graphite and Carbon Fibers. <b>2017</b> , 7, 924	9
1035	The New Graphene Family Materials: Synthesis and Applications in Oxygen Reduction Reaction. <b>2017</b> , 7, 1	175
1034	Properties and Synthesis Strategies of Graphene Quantum Dots. <b>2017</b> , 1-18	
1033	3.5 Photocatalytic Processes in Membrane Reactors. <b>2017</b> , 101-138	6
1032	A Supramolecular Polymer Network of Graphene Quantum Dots. <b>2018</b> , 130, 5054-5058	16
1031	A Supramolecular Polymer Network of Graphene Quantum Dots. <b>2018</b> , 57, 4960-4964	31
1030	Cage Breaking of C60 Into Photoluminescent Graphene Oxide Quantum Dots: An Efficient Peroxidase Mimic. <b>2018</b> , 255, 1700535	4
1029	Theoretical study of nitrogen-doped graphene nanoflakes: Stability and spectroscopy depending on dopant types and flake sizes. <b>2018</b> , 39, 1387-1397	10
1028	Interfacial engineering in graphene bandgap. <b>2018</b> , 47, 3059-3099	94
1027	Thickness-controlled direct growth of nanographene and nanographite film on non-catalytic substrates. <b>2018</b> , 29, 215711	1
1026	A Review of Carbon-Composited Materials as Air-Electrode Bifunctional Electrocatalysts for MetalAir Batteries. <b>2018</b> , 1, 1-34	126
1025	Terbium(III) Modified Fluorescent Carbon Dots for Highly Selective and Sensitive Ratiometry of Stringent. <b>2018</b> , 90, 4003-4009	80
1024	Graphene-quantum-dots induced NiCo2S4 with hierarchical-like hollow nanostructure for supercapacitors with enhanced electrochemical performance. <b>2018</b> , 269, 45-54	35
1023	Egg yolk-derived carbon: Achieving excellent fluorescent carbon dots and high performance lithium-ion batteries. <b>2018</b> , 746, 567-575	30

1022	Photoluminescent reduced graphene oxide quantum dots from latex of Calotropis gigantea for metal sensing, radical scavenging, cytotoxicity, and bioimaging in Artemia salina: A greener route.  2018, 178, 371-379	47
1021	Red-emitting carbon dots phosphors: a promising red color convertor toward warm white light emitting diodes. <b>2018</b> , 29, 10453-10460	4
1020	Electrochemically prepared oxygen and sulfur co-doped graphitic carbon nitride quantum dots for fluorescence determination of copper and silver ions and biothiols. <b>2018</b> , 1027, 121-129	41
1019	Graphene Quantum Dots-based Electrochemical Biosensor for Catecholamine Neurotransmitters Detection. <b>2018</b> , 30, 1781-1790	47
1018	Facile synthesis and versatile applications of amorphous carbon dot. <b>2018</b> , 5, 10077-10083	8
1017	Design of Pyrrolic-N-Rich Carbon Dots with Absorption in the First Near-Infrared Window for Photothermal Therapy. <b>2018</b> , 1, 2368-2375	54
1016	Green synthesis of red-emission carbon based dots by microbial fermentation. <b>2018</b> , 42, 8591-8595	6
1015	Highly stable copper/carbon dot nanofluid. <b>2018</b> , 133, 951-960	10
1014	Graphene quantum dots modified Ag3PO4 for facile synthesis and the enhanced photocatalytic performance. <b>2018</b> , 6, 255-269	7
1013	Tuning the optical properties of graphene quantum dots for biosensing and bioimaging. <b>2018</b> , 6, 3219-3234	106
1012	Bandgap engineering of nanosized carbon dots through electron-accepting functionalization. <b>2018</b> , 65, 104-111	16
1011	Advances in the integration of quantum dots with various nanomaterials for biomedical and environmental applications. <b>2018</b> , 143, 2469-2478	26
1010	Highly Efficient Carbon Dots with Reversibly Switchable Green-Red Emissions for Trichromatic White Light-Emitting Diodes. <b>2018</b> , 10, 16005-16014	104
1009	Synergistic Targeting and Efficient Photodynamic Therapy Based on Graphene Oxide Quantum Dot-Upconversion Nanocrystal Hybrid Nanoparticles. <b>2018</b> , 14, e1800293	36
1008	2D-2D Nanocomposite of MoS2-Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C3-Functionalized Indoles. <b>2018</b> , 10, 3121-3132	24
1007	Photoluminescence of carbon quantum dots: coarsely adjusted by quantum confinement effects and finely by surface trap states. <b>2018</b> , 61, 490-496	49
1006	Controllable and eco-friendly synthesis of P-riched carbon quantum dots and its application for	27
	copper (II) ion sensing. <b>2018</b> , 448, 589-598	37

1004	Full color emitting fluorescent carbon material as reversible pH sensor with multicolor live cell imaging. <b>2018</b> , 182, 137-145	28
1003	A green synthesis of highly luminescent carbon dots from itaconic acid and their application as an efficient sensor for Fe3+ ions in aqueous medium. <b>2018</b> , 42, 8933-8942	28
1002	A new tactics for the detection of S. aureus via paper based geno-interface incorporated with graphene nano dots and zeolites. <b>2018</b> , 112, 364-370	18
1001	Photocatalytic degradation of organic pollutants coupled with simultaneous photocatalytic H2 evolution over graphene quantum dots/Mn-N-TiO2/g-C3N4 composite catalysts: Performance and mechanism. <b>2018</b> , 227, 312-321	175
1000	Recent Advances in Graphene Quantum Dots as Bioimaging Probes. <b>2018</b> , 2, 45-60	19
999	Incorporation of graphene quantum dots to enhance photocatalytic properties of anatase TiO2. <b>2018</b> , 8, 137-144	23
998	Effects of C-Related Dangling Bonds and Functional Groups on the Fluorescent and Electrochemiluminescent Properties of Carbon-Based Dots. <b>2018</b> , 24, 4250-4254	14
997	A comparative Study of Aptasensor Vs Immunosensor for Label-Free PSA Cancer Detection on GQDs-AuNRs Modified Screen-Printed Electrodes. <b>2018</b> , 8, 1923	52
996	Blue light emitting diesel soot for photonic applications. <b>2018</b> , 5, 016203	18
995	Chemical modification of group IV graphene analogs. <b>2018</b> , 19, 76-100	22
994	Recent advances in quantum dots for biomedical applications. <b>2018</b> , 48, 209-214	39
994	Recent advances in quantum dots for biomedical applications. <b>2018</b> , 48, 209-214  Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. <b>2018</b> , 20, 1383-1390	39 150
	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass.	
993	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. <b>2018</b> , 20, 1383-1390  Highly selective, rapid-functioning and sensitive fluorescent test paper based on graphene	150
993 992	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. 2018, 20, 1383-1390  Highly selective, rapid-functioning and sensitive fluorescent test paper based on graphene quantum dots for on-line detection of metal ions. 2018, 10, 1163-1171  Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon	150 21
993 992 991	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass.  2018, 20, 1383-1390  Highly selective, rapid-functioning and sensitive fluorescent test paper based on graphene quantum dots for on-line detection of metal ions. 2018, 10, 1163-1171  Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots LangmuirBlodgett Thin Films. 2018, 6, 4154-4163  Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics.	150 21 59
993 992 991 990	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass.  2018, 20, 1383-1390  Highly selective, rapid-functioning and sensitive fluorescent test paper based on graphene quantum dots for on-line detection of metal ions. 2018, 10, 1163-1171  Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots LangmuirBlodgett Thin Films. 2018, 6, 4154-4163  Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. 2018, 14, e1703710	150 21 59 60

986	Solvothermal tuning of photoluminescent graphene quantum dots: from preparation to photoluminescence mechanism. <b>2018</b> , 20, 1	13
985	Multifunctional Photonic Nanomaterials for Diagnostic, Therapeutic, and Theranostic Applications. <b>2018</b> , 30, 1701460	99
984	Raman spectroscopy of graphene-based materials and its applications in related devices. <b>2018</b> , 47, 1822-1873	814
983	The effect of N-doped quantum dots on the properties of in situ prepared colorless polyimide nanocomposite films. <b>2018</b> , 140, 144-152	12
982	White-Light-Emitting Carbon Nano-Onions: A Tunable Multichannel Fluorescent Nanoprobe for Glutathione-Responsive Bioimaging. <b>2018</b> , 1, 662-674	20
981	Wideband absorption in one dimensional photonic crystal with graphene-based hyperbolic metamaterials. <b>2018</b> , 114, 355-360	17
980	Redox Induced Fluorescence On In Switching Based on Nitrogen Enriched Graphene Quantum Dots for Formaldehyde Detection and Bioimaging. <b>2018</b> , 6, 1708-1716	45
979	Evaluation of physico-mechanical properties in NHDF and HeLa cell with treatment of graphene quantum dots using atomic force microscopy. <b>2018</b> , 437, 357-365	3
978	Graphene Platforms for Smart Energy Generation and Storage. <b>2018</b> , 2, 245-268	124
977	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. <b>2018</b> , 34, 250-258	49
976	Green Synthesis of Multifunctionalized, Nitrogen-Doped, Highly Fluorescent Carbon Dots from Waste Expanded Polystyrene and Its Application in the Fluorimetric Detection of Au3+ Ions in Aqueous Media. <b>2018</b> , 6, 1627-1638	76
975	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. <b>2018</b> , 6, 1700-1713	77
974	Graphene quantum dots (GQDs) and its derivatives for multifarious photocatalysis and photoelectrocatalysis. <b>2018</b> , 315, 171-183	94
973	Tailoring the Efficacy of Multifunctional Biopolymeric Graphene Oxide Quantum Dot-Based Nanomaterial as Nanocargo in Cancer Therapeutic Application. <b>2018</b> , 4, 514-531	32
972	Graphene oxide as an additive to improve perovskite film crystallization and morphology for high-efficiency solar cells <b>2018</b> , 8, 987-993	28
971	Electronic structure manipulation of graphene dots for effective hydrogen evolution from photocatalytic water decomposition. <b>2018</b> , 10, 10721-10730	19
970	Three Minute Ultrarapid Microwave-Assisted Synthesis of Bright Fluorescent Graphene Quantum Dots for Live Cell Staining and White LEDs. <b>2018</b> , 1, 1623-1630	57
969	NIR-responsive carbon dots for efficient photothermal cancer therapy at low power densities. <b>2018</b> , 134, 153-162	119

968	Zinc and nitrogen ornamented bluish white luminescent carbon dots for engrossing bacteriostatic activity and Fenton based bio-sensor. <b>2018</b> , 88, 115-129	53
967	Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. <b>2018</b> , 266, 583-593	75
966	Temperature sensing using sulfur-doped carbon nanoparticles. <b>2018</b> , 133, 200-208	17
965	Graphene quantum dots modified polyvinylidenefluride (PVDF) nanofibrous membranes with enhanced performance for air Gap membrane distillation. <b>2018</b> , 126, 222-231	55
964	Quick synthesis of 2-propanol derived fluorescent carbon dots for bioimaging applications. <b>2018</b> , 78, 477-483	10
963	Graphene Quantum Dots for Radiotherapy. <b>2018</b> , 10, 14342-14355	36
962	GSH-doped GQDs using citric acid rich-lime oil extract for highly selective and sensitive determination and discrimination of Fe and Fe in the presence of HO by a fluorescence "turn-off" sensor <b>2018</b> , 8, 10148-10157	16
961	Preparation and biodistribution of 131I-labeled graphene quantum dots. 2018, 316, 685-690	8
960	Enhancement of graphene quantum dots based applications via optimum physical chemistry: A review. <b>2018</b> , 38, 481-497	21
959	High-Performance Supercapacitor of Graphene Quantum Dots with Uniform Sizes. <b>2018</b> , 10, 12983-12991	107
959 958	High-Performance Supercapacitor of Graphene Quantum Dots with Uniform Sizes. <b>2018</b> , 10, 12983-12991  Graphene quantum dots derived from hollow carbon nano-onions. <b>2018</b> , 11, 174-184	107
958	Graphene quantum dots derived from hollow carbon nano-onions. <b>2018</b> , 11, 174-184  Optical and physical properties of iridescent photonic crystals obtained by self-assembled	19
958 957	Graphene quantum dots derived from hollow carbon nano-onions. <b>2018</b> , 11, 174-184  Optical and physical properties of iridescent photonic crystals obtained by self-assembled polymethyl methacrylate nanospheres within graphene oxide nanoplatelets. <b>2018</b> , 29, 244-253  Graphene quantum dots/bisulfite assisted chemiluminescence of rhodamine B-H2O2 system for	19
<ul><li>958</li><li>957</li><li>956</li></ul>	Graphene quantum dots derived from hollow carbon nano-onions. 2018, 11, 174-184  Optical and physical properties of iridescent photonic crystals obtained by self-assembled polymethyl methacrylate nanospheres within graphene oxide nanoplatelets. 2018, 29, 244-253  Graphene quantum dots/bisulfite assisted chemiluminescence of rhodamine B-H2O2 system for sensitive recognition of HCHO. 2018, 254, 402-410  Investigation on the pH-independent photoluminescence emission from carbon dots impregnated	19 1 10
<ul><li>958</li><li>957</li><li>956</li><li>955</li></ul>	Graphene quantum dots derived from hollow carbon nano-onions. 2018, 11, 174-184  Optical and physical properties of iridescent photonic crystals obtained by self-assembled polymethyl methacrylate nanospheres within graphene oxide nanoplatelets. 2018, 29, 244-253  Graphene quantum dots/bisulfite assisted chemiluminescence of rhodamine B-H2O2 system for sensitive recognition of HCHO. 2018, 254, 402-410  Investigation on the pH-independent photoluminescence emission from carbon dots impregnated on polymer matrix. 2018, 33, 22-28  Synthesis of green fluorescent carbon quantum dots using waste polyolefins residue for Cu2+ ion	19 1 10
<ul><li>958</li><li>957</li><li>956</li><li>955</li><li>954</li></ul>	Graphene quantum dots derived from hollow carbon nano-onions. 2018, 11, 174-184  Optical and physical properties of iridescent photonic crystals obtained by self-assembled polymethyl methacrylate nanospheres within graphene oxide nanoplatelets. 2018, 29, 244-253  Graphene quantum dots/bisulfite assisted chemiluminescence of rhodamine B-H2O2 system for sensitive recognition of HCHO. 2018, 254, 402-410  Investigation on the pH-independent photoluminescence emission from carbon dots impregnated on polymer matrix. 2018, 33, 22-28  Synthesis of green fluorescent carbon quantum dots using waste polyolefins residue for Cu2+ ion sensing and live cell imaging. 2018, 254, 197-205  Graphene quantum dots modified with adenine for efficient two-photon bioimaging and white	19 1 10 10 80

950	Photoluminescence properties of N-doped carbon dots prepared in different solvents and applications in pH sensing. <b>2018</b> , 53, 2424-2433	38
949	Highly selective and sensitive detection of cysteine with a graphene quantum dots-gold nanoparticles based core-shell nanosensor. <b>2018</b> , 257, 228-236	39
948	Highly selective and sensitive detection of calcium (II) ions in human serum using novel fluorescent carbon dots. <b>2018</b> , 255, 3425-3433	47
947	The photoluminescence of step-wise reduced graphene oxide quantum dots. <b>2018</b> , 203, 125-132	11
946	Particulate, Structural, and Optical Properties of D-Glucose-Derived Carbon Dots Synthesized by Microwave-Assisted Hydrothermal Treatment. <b>2018</b> , 7, R3034-R3039	12
945	Fluorescence resonance energy transfer aptasensor between nanoceria and graphene quantum dots for the determination of ochratoxin A. <b>2018</b> , 1000, 265-272	63
944	Oxygen-Rich Carbon Quantum Dots as Catalysts for Selective Oxidation of Amines and Alcohols. <b>2018</b> , 10, 259-265	20
943	Functional Carbon Quantum Dots: A Versatile Platform for Chemosensing and Biosensing. <b>2018</b> , 18, 491-505	80
942	Carbon dots with red-shifted photoluminescence by fluorine doping for optical bio-imaging. <b>2018</b> , 128, 78-85	100
941	Colorimetric and fluorescent dual-mode sensing of alkaline phosphatase activity in L-02 cells and its application in living cell imaging based on in-situ growth of silver nanoparticles on graphene quantum dots. <b>2018</b> , 258, 461-469	27
940	Materials Development for Active/Passive Components of a Supercapacitor. 2018,	14
939	Towards high-powered remote WLED based on flexible white-luminescent polymer composite films containing S, N co-doped graphene quantum dots. <b>2018</b> , 336, 406-415	37
938	Exploiting Anti-T-shaped Graphene Architecture to Form Low Tortuosity, Sieve-like Interfaces for High-Performance Anodes for Li-Based Cells. <b>2018</b> , 4, 81-88	33
937	Hierarchical TiO imbedded with graphene quantum dots for high-performance lithium storage. <b>2018</b> , 54, 1413-1416	49
936	Microwave-Assisted Synthesis of Biocompatible Silk Fibroin-Based Carbon Quantum Dots. <b>2018</b> , 35, 1700300	16
935	A highly selective fluorescence sensing platform for nanomolar Hg(II) detection based on cytosine derived quantum dot. <b>2018</b> , 193, 95-101	13
934	Graphene quantum dots nanosensor derived from 3D nanomesh graphene frameworks and its application for fluorescent sensing of Cu2+ in rat brain. <b>2018</b> , 258, 672-681	25
933	Fluorescent carbon quantum dots synthesized by chemical vapor deposition: An alternative candidate for electron acceptor in polymer solar cells. <b>2018</b> , 75, 166-173	29

932	An ultrasensitive sandwich-type electrochemical immunosensor based on the signal amplification strategy of echinoidea-shaped Au@Ag-CuO nanoparticles for prostate specific antigen detection. <b>2018</b> , 99, 450-457	88
931	Effects of Coal Rank and High Organic Sulfur on the Structure and Optical Properties of Coal-based Graphene Quantum Dots. <b>2018</b> , 92, 1218-1230	7
930	Recent Advances in the Cancer Bioimaging with Graphene Quantum Dots. 2018, 25, 2876-2893	37
929	Transparent luminescent nanopaper based on g-C3N4 nanosheet grafted oxidized cellulose nanofibrils with excellent thermal and mechanical properties. <b>2018</b> , 6, 12660-12667	13
928	Electronic properties of the coronene series from thermally-assisted-occupation density functional theory <b>2018</b> , 8, 34350-34358	14
927	Hemostatic effect of novel carbon dots derived from Carbonisata 2018, 8, 37707-37714	10
926	Biomimetic colloidal photonic crystals by coassembly of polystyrene nanoparticles and graphene quantum dots <b>2018</b> , 8, 34839-34847	11
925	One-pot synthesis of N, S co-doped photoluminescent carbon quantum dots for Hg2+ ion detection. <b>2018</b> , 33, 333-340	14
924	Graphene quantum dots from chemistry to applications. <b>2018</b> , 10, 221-258	306
923	Impact of 🛭 ray irradiation on graphene nano-disc non-volatile memory. <b>2018</b> , 113, 164103	8
922	Overviews of Biomimetic Medical Materials. <b>2018</b> , 1064, 3-24	3
921	Assembly of NiAl layered double hydroxide and oxide graphene quantum dots for supercapacitors. <b>2018</b> , 33, 4215-4223	6
920	Influence of molecular fluorophores on the research field of chemically synthesized carbon dots. <b>2018</b> , 23, 124-139	119
919	References. <b>2018</b> , 241-263	
918	Carbon Nanodots: A ReviewErom the Current Understanding of the Fundamental Photophysics to the Full Control of the Optical Response. <b>2018</b> , 4, 67	94
917	Colloidal N-Doped Graphene Quantum Dots with Tailored Luminescent Downshifting and Detection of UVA Radiation with Enhanced Responsivity. <b>2018</b> , 3, 16260-16270	22
916	Ab initio calculations of energy and IR spectra of edge functionalized graphene quantum dots. <b>2018</b>	1
915	Molecular imaging with nanoparticles: the dwarf actors revisited 10lyears later. 2018, 150, 733-794	8

914	High-Performance Li-CO2 Batteries Based on Metal-Free Carbon Quantum Dot/Holey Graphene Composite Catalysts. <b>2018</b> , 28, 1804630	91
913	Improved performance and antifouling properties of thin-film composite polyamide membranes modified with nano-sized bactericidal graphene quantum dots for forward osmosis. <b>2018</b> , 139, 321-334	57
912	N, S doped carbon dotsPlasmonic Au nanocomposites for visible-light photocatalytic reduction of nitroaromatics. <b>2018</b> , 33, 3906-3916	10
911	The Synergistic Effect of Pyridinic Nitrogen and Graphitic Nitrogen of Nitrogen-Doped Graphene Quantum Dots for Enhanced TiO2 Nanocomposites (Photocatalytic Performance. <b>2018</b> , 8, 438	7
910	Langmuir-Blodgett self-assembly of ultrathin graphene quantum dot films with modulated optical properties. <b>2018</b> , 10, 19612-19620	16
909	Application of black phosphorus nanodots to live cell imaging. <b>2018</b> , 22, 31	16
908	Investigation of the Microstructures of Graphene Quantum Dots (GQDs) by Surface-Enhanced Raman Spectroscopy. <b>2018</b> , 8,	50
907	Quantitative Nanoscopy of Small Blinking Graphene Nanocarriers in Drug Delivery. <b>2018</b> , 29, 3658-3666	5
906	A Reduced Graphene Oxide Quantum Dot-Based Adsorbent for Efficiently Binding with Organic Pollutants. <b>2018</b> , 1, 6502-6513	23
905	Green Preparation of High Yield Fluorescent Graphene Quantum Dots from Coal-Tar-Pitch by Mild Oxidation. <b>2018</b> , 8,	48
904	Facile Conversion of Toxic Cigarette Butts to N,S-Codoped Carbon Dots and Their Application in Fluorescent Film, Security Ink, Bioimaging, Sensing and Logic Gate Operation. <b>2018</b> , 3, 13454-13466	61
903	Production of pristine graphene quantum dots from graphite by a shear-mixer in supercritical CO2. <b>2018</b> , 710, 64-69	7
902	Flexible and portable graphene on carbon cloth as a power generator for electricity generation. <b>2018</b> , 140, 488-493	36
901	Graphene Quantum Dots: Synthesis and Applications. <b>2018</b> , 609, 335-354	19
900	Ordered-Disordered BaZrO Hollow Nanosphere/Carbon Dot Hybrid Nanocomposite: A New Visible-Light-Driven Efficient Composite Photocatalyst for Hydrogen Production and Dye Degradation. <b>2018</b> , 3, 10980-10991	10
899	Water-soluble, lignin-derived carbon dots with high fluorescent emissions and their applications in bioimaging. <b>2018</b> , 66, 387-395	31
898	Tailoring Blue-Green Double Emissions in Carbon Quantum Dots via Co-Doping Engineering by Competition Mechanism between Chlorine-Related States and Conjugated Domains. <b>2018</b> , 8,	11
897	Fabrication of ultra-small monolayer graphene quantum dots by pyrolysis of trisodium citrate for fluorescent cell imaging. <b>2018</b> , 13, 4807-4815	46

896	Photo-and Electroluminescence from Nitrogen-Doped and NitrogenBulfur Codoped Graphene Quantum Dots. <b>2018</b> , 28, 1804337	70
895	Superior photodynamic effect of carbon quantum dots through both type I and type II pathways: Detailed comparison study of top-down-synthesized and bottom-up-synthesized carbon quantum dots. <b>2018</b> , 140, 616-623	31
894	Green synthesis of N, S co-doped carbon quantum dots from triflic acid treated palm shell waste and their application in nitrophenol sensing. <b>2018</b> , 108, 250-254	33
893	Synthesis of graphene quantum dots from natural polymer starch for cell imaging. <b>2018</b> , 20, 4438-4442	137
892	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. <b>2018</b> , 35, 1800080	14
891	Lysine-Derived Carbon Dots for Chiral Inhibition of Prion Peptide Fibril Assembly. <b>2018</b> , 1, 1800006	11
890	Selective two-photon absorption in carbon dots: a piece of the photoluminescence emission puzzle. <b>2018</b> , 10, 12505-12514	28
889	Synthesis of Black Phosphorus Quantum Dots with High Quantum Yield by Pulsed Laser Ablation for Cell Bioimaging. <b>2018</b> , 13, 1842	23
888	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. <b>2018</b> , 2, 1800050	108
887	Anomalous stokes shift of colloidal quantum dots. 2018,	
88 <sub>7</sub>	Anomalous stokes shift of colloidal quantum dots. <b>2018</b> ,  Carbon nanomaterials for electroanalysis in pharmaceutical applications. <b>2018</b> , 169-225	5
ŕ		5
886	Carbon nanomaterials for electroanalysis in pharmaceutical applications. <b>2018</b> , 169-225  Singlet Oxygen Generating Properties of Different Sizes of Charged Graphene Quantum Dot	
886	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018, 169-225  Singlet Oxygen Generating Properties of Different Sizes of Charged Graphene Quantum Dot Nanoconjugates with a Positively Charged Phthalocyanine. 2018, 28, 827-838  Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality	9
886 885 884	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018, 169-225  Singlet Oxygen Generating Properties of Different Sizes of Charged Graphene Quantum Dot Nanoconjugates with a Positively Charged Phthalocyanine. 2018, 28, 827-838  Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality Monitoring. 2018, 267-306	9
886 885 884 883	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018, 169-225  Singlet Oxygen Generating Properties of Different Sizes of Charged Graphene Quantum Dot Nanoconjugates with a Positively Charged Phthalocyanine. 2018, 28, 827-838  Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality Monitoring. 2018, 267-306  Graphene-Based Nanomaterials in Bioimaging. 2018, 247-287  Photoluminescence tuning in carbon dots: surface passivation or/and functionalization,	9 10 14
886 885 884 883	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018, 169-225  Singlet Oxygen Generating Properties of Different Sizes of Charged Graphene Quantum Dot Nanoconjugates with a Positively Charged Phthalocyanine. 2018, 28, 827-838  Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality Monitoring. 2018, 267-306  Graphene-Based Nanomaterials in Bioimaging. 2018, 247-287  Photoluminescence tuning in carbon dots: surface passivation or/and functionalization, heteroatom doping. 2018, 6, 7944-7970  One-Pot Green Synthesis of Biocompatible Graphene Quantum Dots and Their Cell Uptake Studies	9 10 14 181

878	nanoprobes. <b>2018</b> , 1041, 1-24	29
877	Phosphorus-doped carbon dots for sensing both Au (III) and l-methionine. <b>2018</b> , 365, 178-184	11
876	Graphene Oxide Quantum Dots as the Support for the Synthesis of Gold Nanoparticles and Their Applications as New Catalysts for the Decomposition of Composite Solid Propellants. <b>2018</b> , 3, 7278-7287	25
875	One-pot synthesis of highly fluorescent amino-functionalized graphene quantum dots for effective detection of copper ions. <b>2018</b> , 18, 1255-1260	21
874	Novel properties and applications of carbon nanodots. <b>2018</b> , 3, 565-597	188
873	pH assisted selective detection of Hg(II) and Ag(I) based on nitrogen-rich carbon dots. <b>2018</b> , 273, 1640-1647	30
872	Defect States Control Effective Band Gap and Photochemistry of Graphene Quantum Dots. <b>2018</b> , 10, 27195-27204	15
871	A functional preservation strategy for the production of highly photoluminescent emerald carbon dots for lysosome targeting and lysosomal pH imaging. <b>2018</b> , 10, 14705-14711	69
870	Zener diode behavior of nitrogen-doped graphene quantum dots. <b>2018</b> , 104, 36-41	2
869	Carbon-electroluminescence: An organic approach to lighting. <b>2018</b> ,	0
868	Dramatic photoluminescence quenching in carbon dots induced by cyclic voltammetry. <b>2018</b> , 54, 9067-9070	13
867	A novel thiol-ene click reaction for preparation of graphene quantum dots and their potential for fluorescence imaging. <b>2018</b> , 91, 631-637	9
866	Graphene Quantum Dot-Aerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. <b>2018</b> , 10, 18192-18201	32
865	Current status and prospects on chemical structure driven photoluminescence behaviour of carbon dots. <b>2018</b> , 37, 1-22	77
864	Rationally Designed Efficient Dual-Mode Colorimetric/Fluorescence Sensor Based on Carbon Dots for Detection of pH and Cu2+ Ions. <b>2018</b> , 6, 12668-12674	69
863	Graphene-Loaded BiSe: A Conversion-Alloying-type Anode Material for Ultrafast Gravimetric and Volumetric Na Storage. <b>2018</b> , 10, 30379-30387	44
862	Multifunctional fluorescent carbon dots inhibit the invasiveness of lung cancer cells. <b>2018</b> , 42, 15311-15314	6
861	Ge nanoparticles embedded in spherical ordered mesoporous carbon as anode material for high performance lithium ion batteries. <b>2018</b> , 287, 21-28	20

860	Electrochemically Exfoliated Carbon Quantum Dots Modified Electrodes for Detection of Dopamine Neurotransmitter. <b>2018</b> , 165, G3112-G3119	55
859	Nanostructured Graphene Oxide Dots: Synthesis, Characterization, Photoinduced Electron Transfer Studies, and Detection of Explosives/Biomolecules. <b>2018</b> , 3, 9096-9104	15
858	Multifunctional carbon dot for lifetime thermal sensing, nucleolus imaging and antialgal activity. <b>2018</b> , 6, 5708-5717	20
857	Biomass-waste derived graphene quantum dots and their applications. <b>2018</b> , 140, 77-99	119
856	Characterization and tribological properties of rice husk carbon nanoparticles Co-doped with sulfur and nitrogen. <b>2018</b> , 462, 944-954	23
855	Controlled synthesis of blue luminescent graphene quantum dots from carbonized citric acid: Assessment of methodology, stability, and fluorescence in an aqueous environment. <b>2018</b> , 220, 11-22	29
854	One-pot synthesis and lubricity of fluorescent carbon dots applied on PCL-PEG-PCL hydrogel. <b>2018</b> , 29, 1549-1565	9
853	Investigation of phosphorous doping effects on polymeric carbon dots: Fluorescence, photostability, and environmental impact. <b>2018</b> , 129, 438-449	81
852	Enhanced Performance of Planar Perovskite Solar Cell by Graphene Quantum Dot Modification. <b>2018</b> , 6, 8631-8640	57
851	Graphene quantum dots-assisted exfoliation of graphitic carbon nitride to prepare metal-free zero-dimensional/two-dimensional composite photocatalysts. <b>2018</b> , 53, 12103-12114	32
850	Excellent luminescence films of excitation-independent carbon quantum dots toward non-rare-earth phosphor-based white light-emitting diodes. <b>2018</b> , 764, 17-23	8
849	A solvent-free gaseous detonation approach for converting benzoic acid into graphene quantum dots within milliseconds. <b>2018</b> , 87, 233-241	8
848	Tuning of the hydrophilicity and hydrophobicity of nitrogen doped carbon dots: A facile approach towards high efficient lubricant nanoadditives. <b>2018</b> , 266, 65-74	35
847	One-Pot Facile Synthesis of Graphene Quantum Dots from Rice Husks for Fe3+ Sensing. <b>2018</b> , 57, 9144-9150	40
846	Nitrogen and sulfur co-doped graphene quantum dots for the highly sensitive and selective detection of mercury ion in living cells. <b>2019</b> , 206, 588-596	40
845	Ultrathin carbon coated mesoporous Ni-NiFe2O4 nanosheet arrays for efficient overall water splitting. <b>2019</b> , 321, 134652	23
844	Intrinsic Emission from Nanographenes. <b>2019</b> , 14, 3213-3220	8
843	Tailoring fluorescence emissions, quantum yields, and white light emitting from nitrogen-doped graphene and carbon nitride quantum dots. <b>2019</b> , 11, 16553-16561	34

842	Single-Molecule Conductance Theory Using Different Orbitals for Different Spins: Applications to Electrons in Graphene Molecules. <b>2019</b> , 341-358	1
841	A critical review on two-dimensional quantum dots (2D QDs): From synthesis toward applications in energy and optoelectronics. <b>2019</b> , 68, 100226	53
840	Biowaste derived graphene quantum dots interlaced with SnO2 nanoparticles & dynamic disinfection agent against Pseudomonas aeruginosa. <b>2019</b> , 43, 13681-13689	10
839	Synthesis and Imaging of Biocompatible Graphdiyne Quantum Dots. <b>2019</b> , 11, 32798-32807	24
838	Raman spectroscopy of bottom-up synthesized graphene quantum dots: size and structure dependence. <b>2019</b> , 11, 16571-16581	91
837	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. <b>2019</b> , 197, 111545	42
836	Synthesis of graphene quantum dot-stabilized gold nanoparticles and their application <b>2019</b> , 9, 21215-21219	9 20
835	Graphene Quantum Dots for Optical Bioimaging. <b>2019</b> , 15, e1902136	92
834	Two dimensional carbon based nanocomposites as multimodal therapeutic and diagnostic platform: A biomedical and toxicological perspective. <b>2019</b> , 308, 130-161	20
833	Microplasma-enhanced synthesis of colloidal graphene quantum dots at ambient conditions. <b>2019</b> , 153, 315-319	22
832	Biocompatible fluorescent carbon dots derived from roast duck for in vitro cellular and in vivo C. elegans bio-imaging. <b>2019</b> , 168, 76-83	15
831	Carbon fiber-assisted iron carbide nanoparticles as an efficient catalyst via peroxymonosulfate activation for organic contaminant removal. <b>2019</b> , 9, 4365-4373	8
830	Synthesis of graphene quantum dots stabilized bimetallic AgRh nanoparticles and their applications. <b>2019</b> , 496, 119031	9
829	Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. 2019,	
828	Nitrogen and boron-incorporated carbon dots for the sequential sensing of ferric ions and ascorbic acid sensitively and selectively. <b>2019</b> , 171, 107752	15
827	Functionalization of graphene layers and advancements in device applications. <b>2019</b> , 152, 954-985	61
826	Preparation of graphene oxide quantum dots from waste toner, and their application to a fluorometric DNA hybridization assay. <b>2019</b> , 186, 483	13
825	Quantum dots from microfluidics for nanomedical application. <b>2019</b> , 11, e1567	20

824	The role of edge magnetism on the Kohn-Sham gap and fundamental energy gap of graphene quantum dots with zigzag edges. <b>2019</b> , 153, 89-94		1
823	Functionalized Chitosan-Carbon Dots: A Fluorescent Probe for Detecting Trace Amount of Water in Organic Solvents. <b>2019</b> , 4, 11301-11311		45
822	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. <b>2019</b> , 6, 045021		5
821	Synthesis of Photoluminescent CoreBhell-Structured Carbon dots@silica Nanocomposite Fingermark Powders for Latent Fingermarks Visualization. <b>2019</b> , 14, 1950068		3
820	Graphene family nanofluids: A critical review and future research directions. 2019, 196, 1222-1256		104
819	Deep-Ultraviolet Emissive Carbon Nanodots. <i>Nano Letters</i> , <b>2019</b> , 19, 5553-5561	11.5	34
818	Microwave assisted green synthesis of Zwitterionic photolumenescent N-doped carbon dots: An efficient Bn-offEhemosensor for tracer Cr(+6) considering the inner filter effect and nano drug-delivery vector. <b>2019</b> , 579, 123604		43
817	Electrochemical Oxygen-Reduction Activity and Carbon Monoxide Tolerance of Iron Phthalocyanine Functionalized with Graphene Quantum Dots: A Density Functional Theory Approach. <b>2019</b> , 123, 27483-2	7491	5
816	NitrogenBulfur-Doped Graphene Quantum Dots with Metal Ion-Resistance for Bioimaging. <b>2019</b> , 2, 6858-6865		23
815	Nanomaterials-based UV photodetectors. <b>2019</b> , 123-149		5
814	Additive-Free Electrophoretic Deposition of Graphene Quantum Dots Thin Films. <b>2019</b> , 25, 16573		7
813	Electrochemical synthesis of molecularly imprinted poly(p-aminobenzene sulphonic acid) on carbon nanodots coated pencil graphite electrode for selective determination of folic acid. <b>2019</b> , 854, 113518		11
812	Two-Dimensional Phosphorene, Arsenene, and Antimonene Quantum Dots: Anomalous Size-Dependent Behaviors of Optical Properties. <b>2019</b> , 123, 25775-25780		10
811	Deposition of nickel hydroxide on water-dispersible multi-walled carbon nanotubes for enhanced electrochemical performance. <b>2019</b> , 256, 116152		2
810	Evolution and Synthesis of Carbon Dots: From Carbon Dots to Carbonized Polymer Dots. <b>2019</b> , 6, 190131	6	349
809	Total ionizing dose effects on graphene-based charge-trapping memory. <b>2019</b> , 62, 1		2
808	Insulator to semiconductor transition in graphene quantum dots. 2019,		3
807	Excitons in Carbonic Nanostructures. <b>2019</b> , 5, 71		26

806	Electrical and optical properties of the specimens with graphene quantum dots prepared by different number of wet transfer. <b>2019</b> , 99, 107527	
805	Synthesis of Carbon Quantum Dots with Special Reference to Biomass as a Source - A Review. <b>2019</b> , 25, 1455-1476	21
804	Graphene Quantum Dots A New Member of the Graphene Family: Structure, Properties, and Biomedical Applications. <b>2019</b> , 267-299	
803	Functionalized Graphene Nanomaterials as Biocatalysts: Recent Developments and Future Prospects. <b>2019</b> , 301-323	
802	Quenching-Resistant Polymer Carbon Dot Preserving Emission Color Consistency in Solid-State. <b>2019</b> , 7, 1900932	19
801	Synthesis of K-Carrageenan Flame-Retardant Microspheres and Its Application for Waterborne Epoxy Resin with Functionalized Graphene. <b>2019</b> , 11,	10
800	Laser-driven nanomaterials and laser-enabled nanofabrication for industrial applications. 2019, 181-203	7
799	N-Cdots-decorated TiO2(B)/anatase microspheres with high photocatalytic performance in visible light. <b>2019</b> , 44, 31129-31140	8
798	Effect of initial precursor concentration on the spectral-luminescent characteristics and cytotoxicity of carbon nanoparticles. <b>2019</b> , 5, 025017	
797	Small molecules derived carbon dots: synthesis and applications in sensing, catalysis, imaging, and biomedicine. <b>2019</b> , 17, 92	165
797 796		165 13
	biomedicine. <b>2019</b> , 17, 92  Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. <b>2019</b> ,	
796	biomedicine. <b>2019</b> , 17, 92  Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. <b>2019</b> , 123, 22447-22456	13
79 <sup>6</sup>	Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. 2019, 123, 22447-22456  Carbon Dots as an Effective Fluorescent Sensing Platform for Metal Ion Detection. 2019, 14, 272  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	13
796 795 794	Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. 2019, 123, 22447-22456  Carbon Dots as an Effective Fluorescent Sensing Platform for Metal Ion Detection. 2019, 14, 272  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  Theoretical insights into tunable optical and electronic properties of graphene quantum dots	13 85 63
796 795 794 793	Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. 2019, 123, 22447-22456  Carbon Dots as an Effective Fluorescent Sensing Platform for Metal Ion Detection. 2019, 14, 272  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  Theoretical insights into tunable optical and electronic properties of graphene quantum dots through phosphorization. 2019, 155, 491-498  Research performance and trends of fluorescent carbon nanoparticles: a science citation index	13 85 63
796 795 794 793 792	Hydrophobic Carbon Dots from Aliphatic Compounds with One Terminal Functional Group. 2019, 123, 22447-22456  Carbon Dots as an Effective Fluorescent Sensing Platform for Metal Ion Detection. 2019, 14, 272  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  Theoretical insights into tunable optical and electronic properties of graphene quantum dots through phosphorization. 2019, 155, 491-498  Research performance and trends of fluorescent carbon nanoparticles: a science citation index expanded-based analysis. 2019, 21, 1  Flexible graphene oxide/mixed cellulose ester films for electricity generation and solar	13 85 63 17

788	An Unexpected Transformation of Organic Solvents into 2D Fluorescent Quantum Dots during Ultrasonication-Assisted Liquid-Phase Exfoliation. <b>2019</b> , 123, 25412-25421	4
787	Three-dimensional nitrogen and phosphorus co-doped carbon quantum dots/reduced graphene oxide composite aerogels with a hierarchical porous structure as superior electrode materials for supercapacitors. <b>2019</b> , 7, 26311-26325	108
786	Anomalous Stokes shift of colloidal quantum dots and their influence on solar cell performance. <b>2019</b> , 1	
7 <sup>8</sup> 5	Variation of Optical Properties of Nitrogen-doped Graphene Quantum Dots with Short/Mid/Long-wave Ultraviolet for the Development of the UV Photodetector. <b>2019</b> , 11, 39035-39045	12
784	Engineering pharmaceutical nanocarriers for photodynamic therapy on wound healing: Review. <b>2019</b> , 105, 110110	38
783	Self-illumination of Carbon Dots by Bioluminescence Resonance Energy Transfer. <b>2019</b> , 9, 13796	3
782	Highly porous self-assembly of nitrogen-doped graphene quantum dots over reduced graphene sheets for photo-electrocatalytic electrode. <b>2019</b> , 557, 174-184	14
781	Photoluminescence and Photodetecting Properties of the Hydrothermally Synthesized Nitrogen-Doped Carbon Quantum Dots. <b>2019</b> , 123, 25570-25578	14
780	Externally predictive quantum-mechanical models for the adsorption of aromatic organic compounds by graphene-oxide nanomaterials. <b>2019</b> , 30, 847-863	4
779	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. <b>2019</b> , 4, 388-395	50
778	Nitrogen-doped carbon dots derived from electrospun carbon nanofibers for Cu(II) ion sensing. <b>2019</b> , 43, 1812-1817	21
777	One-step selective laser patterning of copper/graphene flexible electrodes. <b>2019</b> , 30, 185301	22
776	Technical imprint of polymer nanocomposite comprising graphene quantum dot. <b>2019</b> , 58, 597-617	3
775	Smart Materials for Forensic Analysis. <b>2019</b> , 895-930	
774	Solvent dependent synthesis of edge-controlled graphene quantum dots with high photoluminescence quantum yield and their application in confocal imaging of cancer cells. <b>2019</b> , 541, 387-398	33
773	Biomarkers-based Biosensing and Bioimaging with Graphene for Cancer Diagnosis. <b>2019</b> , 9,	34
772	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. <b>2019</b> , 31, e1805778	40
771	Double-emission mechanism of laser-induced HOPG-exfoliated Graphene Quantum Dots (GQDs). <b>2019</b> , 114, 022102	5

## (2019-2019)

770	Study of chromatographic fractions from carbon dots isolated by column chromatography and a binary gradient elution via RP-HPLC. <b>2019</b> , 11, 760-766	11
769	Carbon dots: synthesis, formation mechanism, fluorescence origin and sensing applications. <b>2019</b> , 21, 449-471	516
768	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. <b>2019</b> , 11, 1475-1504	97
767	Graphene Oxide: From Tunable Structures to Diverse Luminescence Behaviors. <b>2019</b> , 6, 1900855	47
766	Ratio fluorescence analysis of T4 polynucleotide kinase activity based on the formation of a graphene quantum dot-copper nanocluster nanohybrid. <b>2019</b> , 11, 13903-13908	15
765	Economical and green synthesis of graphene and carbon quantum dots from agricultural waste. <b>2019</b> , 6, 0850g8	21
764	Fluorescent carbon dots functionalization. <b>2019</b> , 270, 165-190	92
763	Selective photoluminescence enhancement of red emitted surface modified poly(p-phenylenediamine) dots: An ultra-sensitive anion photoluminescence sensor for FIIn vitro. <b>2019</b> , 254, 29-33	
762	Synthesis of carbon quantum dots with green luminescence from potato starch. <b>2019</b> , 43, 10826-10833	47
761	Facile and large-scale synthesis of graphene quantum dots for selective targeting and imaging of cell nucleus and mitochondria. <b>2019</b> , 103, 109824	27
760	Future Perspectives and Review on Organic Carbon Dots in Electronic Applications. 2019, 13, 6224-6255	149
759	Synthesis of multi-color fluorescent carbon quantum dots and solid state CQDs@SiO2 nanophosphors for light-emitting devices. <b>2019</b> , 45, 17387-17394	26
758	One-step synthesized fluorescent nitrogen doped carbon dots from thymidine for Cr (VI) detection in water. <b>2019</b> , 222, 117165	28
757	Cadmium-free quantum dot-based theranostics. <b>2019</b> , 118, 386-400	29
756	White light emitting lanthanide based carbon quantum dots as toxic Cr (VI) and pH sensor. <b>2019</b> , 553, 177-185	38
755	One-pot pyrolysis preparation of carbon dots as eco-friendly nanoadditives of water-based lubricants. <b>2019</b> , 152, 511-520	35
754	Carbon dots for energy conversion applications. <b>2019</b> , 125, 220903	33
753	Strong Electrochemiluminescence Emission from Oxidized Multiwalled Carbon Nanotubes. <b>2019</b> , 15, e1901550	16

752	High photoluminescent nitrogen and zinc doped carbon dots for sensing Fe ions and temperature. <b>2019</b> , 222, 117141	28
75 <sup>1</sup>	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. <b>2019</b> , 11, 11496-11504	50
75°	Shining luminescent graphene quantum dots: Synthesis, physicochemical properties, and biomedical applications. <b>2019</b> , 116, 109-121	44
749	Coal-Derived Graphene Quantum Dots Produced by Ultrasonic Physical Tailoring and Their Capacity for Cu(II) Detection. <b>2019</b> , 7, 9793-9799	37
748	Electronic and optical properties of sulfur and nitrogen doped graphene quantum dots: A theoretical study. <b>2019</b> , 113, 130-136	12
747	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. <b>2019</b> , 1, 022001	66
746	Water-Soluble Graphene Quantum Dots as High-Performance Water-Based Lubricant Additive for Steel/Steel Contact. <b>2019</b> , 67, 1	21
745	Direct transformation of lignin into fluorescence-switchable graphene quantum dots and their application in ultrasensitive profiling of a physiological oxidant. <b>2019</b> , 21, 3343-3352	47
744	Interaction of synthesized nitrogen enriched graphene quantum dots with novel anti-Alzheimer's drugs: spectroscopic insights. <b>2020</b> , 38, 1822-1837	10
743	Biocompatibility Assessment of Nanomaterials Using Zebra Fish as a Model. <b>2019</b> , 217-234	1
742	Multi-color fluorescent carbon dots with single wavelength excitation for white light-emitting diodes. <b>2019</b> , 793, 613-619	26
741	Highly efficient carbon quantum dot suspensions and membranes for sensitive/selective detection and adsorption/recovery of mercury ions from aqueous solutions. <b>2019</b> , 100, 127-136	15
740	Efficient and scalable high-quality graphene nanodot fabrication through confined lattice plane electrochemical exfoliation. <b>2019</b> , 55, 5805-5808	22
739	Color-tunable carbon dots via control the degree of self-assembly in solution at different concentration. <b>2019</b> , 212, 69-75	8
738	Solar-excited graphene quantum dots for bacterial inactivation generation of reactive oxygen species. <b>2019</b> , 37, 67-80	7
737	Carbon dots: Applications in bioimaging and theranostics. <b>2019</b> , 564, 308-317	113
736	Recent Advances in Synthesis, Optical Properties, and Biomedical Applications of Carbon Dots <b>2019</b> , 2, 2317-2338	125
735	Recent Advancements and New Perspectives of Nanomaterials. <b>2019</b> , 1-32	

734	Near-Infrared-Emitting Nitrogen-Doped Nanographenes. <b>2019</b> , 131, 9120-9124	8
733	Graphene quantum dots with nitrogen and oxygen derived from simultaneous reaction of solvent as exfoliant and dopant. <b>2019</b> , 372, 624-630	12
732	Near-Infrared-Emitting Nitrogen-Doped Nanographenes. <b>2019</b> , 58, 9022-9026	26
731	Green mass synthesis of graphene oxide and its MnO2 composite for high performance supercapacitor. <b>2019</b> , 312, 11-21	51
730	Iron fluoride vertical nanosheets array modified with graphene quantum dots as long-life cathode for lithium ion batteries. <b>2019</b> , 371, 245-251	41
729	ReviewBiosensing and Biomedical Applications of Graphene: A Review of Current Progress and Future Prospect. <b>2019</b> , 166, B505-B520	24
728	Mint leaf derived carbon dots for dual analyte detection of Fe(iii) and ascorbic acid 2019, 9, 12070-12077	49
727	Graphene quantum dots unraveling: Green synthesis, characterization, radiolabeling with 99mTc, in vivo behavior and mutagenicity. <b>2019</b> , 102, 405-414	26
726	A carbon dot and gold nanoparticle-based fluorometric immunoassay for 8-hydroxy-2'-deoxyguanosine in oxidatively damaged DNA. <b>2019</b> , 186, 303	3
7 <del>2</del> 5	Yellow fluorescent graphene quantum dots as a phosphor for white tunable light-emitting diodes <b>2019</b> , 9, 9301-9307	19
724	Electrochemical sensor based on conductive polyaniline coated hollow tin oxide nanoparticles and nitrogen doped graphene quantum dots for sensitively detecting dopamine. <b>2019</b> , 30, 8449-8456	17
<del>723</del>	Selective, Sensitive and Label-Free Detection of Fe Ion in Tap Water Using Highly Fluorescent Graphene Quantum Dots. <b>2019</b> , 29, 541-548	10
722	Dye-sensitized solar cell (DSSC) coated with energy down shift layer of nitrogen-doped carbon quantum dots (N-CQDs) for enhanced current density and stability. <b>2019</b> , 483, 425-431	50
721	Design and fabrication of carbon dots for energy conversion and storage. <b>2019</b> , 48, 2315-2337	363
720	Strategies to improve the photocatalytic activity of TiO: 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. <b>2019</b> , 11, 7025-7040	97
719	Fluorescent nanoparticles in the popular pizza: properties, biodistribution and cytotoxicity. <b>2019</b> , 10, 2408-2416	16
718	Self-assembled nitrogen-doped graphene quantum dots (N-GQDs) over graphene sheets for superb electro-photocatalytic activity. <b>2019</b> , 480, 1035-1046	30
717	Rational design of a sandwiched structure Ni(OH)2 nanohybrid sustained by amino-functionalized graphene quantum dots for outstanding capacitance. <b>2019</b> , 480, 727-737	28

716	Hot-injection strategy for 1-min synthesis of carbon dots from oxygen-containing organic solvents: Toward fluorescence sensing of hemoglobin. <b>2019</b> , 165, 429-435	17
715	Recent Advances on Graphene Quantum Dots: From Chemistry and Physics to Applications. <b>2019</b> , 31, e1808283	343
714	Nitrogen-doped graphene quantum dots (N-GQDs) perturb redox-sensitive system via the selective inhibition of antioxidant enzyme activities in zebrafish. <b>2019</b> , 206, 61-72	40
713	Synthesis of N-Doped Micropore Carbon Quantum Dots with High Quantum Yield and Dual-Wavelength Photoluminescence Emission from Biomass for Cellular Imaging. <b>2019</b> , 9,	35
712	Carbon dots prepared for fluorescence and chemiluminescence sensing. <b>2019</b> , 62, 968-981	31
711	Microwave growth and tunable photoluminescence of nitrogen-doped graphene and carbon nitride quantum dots. <b>2019</b> , 7, 5468-5476	47
710	Graphene based emergent nanolights: a short review on the synthesis, properties and application. <b>2019</b> , 45, 3823-3853	60
709	Multicolor photoluminescent carbon nanodots regulated by degree of oxidation for multicolor patterning, invisible inks, and detection of metal ions. <b>2019</b> , 21, 1	2
708	Synthesis and Characterization of Fluorescent Carbon Dots from Tapioca. <b>2019</b> , 4, 4140-4146	12
707	Determination of uranium in environmental sample by nanosensor graphene quantum dots. <b>2019</b> , 320, 757-763	7
706	Synthesis of magnetically reusable Fe3O4 nanospheres-N, S co-doped graphene quantum dots enclosed CdSe its application as a photocatalyst. <b>2019</b> , 75, 230-237	5
705	Recent insights into near-infrared light-responsive carbon dots for bioimaging and cancer phototherapy. <b>2019</b> , 6, 1116-1128	49
704	Electrochemical sensor based on Ni/reduced graphene oxide nanohybrids for selective detection of ascorbic acid. <b>2019</b> , 40, 1516-1522	3
703	Highly fluorescent nitrogen-doped carbon dots for the determination and the differentiation of the rare earth element ions. <b>2019</b> , 198, 501-509	17
702	Determination of norepinephrine using a glassy carbon electrode modified with graphene quantum dots and gold nanoparticles by square wave stripping voltammetry. <b>2019</b> , 49, 423-432	17
701	Chemosensing properties and logic gate behaviors of graphene quantum dot-appended terpyridine. <b>2019</b> , 99, 657-668	3
700	Polyaniline-Derived Nitrogen-Doped Graphene Quantum Dots for the Ultratrace Level Electrochemical Detection of Trinitrophenol and the Effective Differentiation of Nitroaromatics: Structure Matters. <b>2019</b> , 7, 6732-6743	36
699	Scalable Production of Nanographene and Doping via Nondestructive Covalent Functionalization. <b>2019</b> , 15, e1805430	18

698	Space-Selective Fabrication of Light-Emitting Carbon Dots in Polymer Films Using Electron-Beam-Induced Chemical Reactions. <b>2019</b> , 4, 3380-3384	3
697	Pt catalysts supported on lignin-based carbon dots for methanol electro-oxidation. <b>2019</b> , 569, 110-118	24
696	Facile synthesis and photoluminescence mechanism of green emitting xylose-derived carbon dots for anti-counterfeit printing. <b>2019</b> , 146, 636-649	38
695	Sub-10 nm stable graphene quantum dots embedded in hexagonal boron nitride. <b>2019</b> , 11, 4226-4230	15
694	Influence of Group Modification at the Edges of Carbon Quantum Dots on Fluorescent Emission. <b>2019</b> , 14, 241	29
693	Graphene: promising nanoplatform for biomedical applications. <b>2019</b> , 307-322	
692	Facile Synthesis of Water-Soluble, Highly-Fluorescent Graphene Quantum Dots from Graphene Oxide Reduction for Efficient Cell Labelling. <b>2019</b> , 5, 77	4
691	Infusion of graphene quantum dots to modulate thermal conductivity and dynamic mechanical properties of polymers. <b>2019</b> , 185, 121988	9
690	Modulation doping of absorbent cotton derived carbon dots for quantum dot-sensitized solar cells. <b>2019</b> , 21, 26133-26145	11
689	Cannabis sativa-derived carbon dots co-doped with NB: highly efficient nanosensors for temperature and vitamin B12. <b>2019</b> , 43, 17058-17068	15
688	Lignite-derived carbon quantum dot/TiO2 heterostructure nanocomposites: photoinduced charge transfer properties and enhanced visible light photocatalytic activity. <b>2019</b> , 43, 18355-18368	12
687	Synthesis, applications and potential photoluminescence mechanism of spectrally tunable carbon dots. <b>2019</b> , 11, 20411-20428	55
686	Pyrolytic Production of Fluorescent Pyrone Derivatives Produced in the Confined Space of Super-Microporous Silicas. <b>2019</b> , 92, 1170-1174	6
685	Functionalized Graphene Quantum Dot Interfaced Electrochemical Detection of Cardiac Troponin I: An Antibody Free Approach. <b>2019</b> , 9, 17348	18
684	One-pot microwave-assisted green synthesis of amine-functionalized graphene quantum dots for high visible light photocatalytic application. <b>2019</b> , 22, 822-828	7
683	Bottom-up and green-synthesis route of amino functionalized graphene quantum dot as a novel biocompatible and label-free fluorescence probe for in vitro cellular imaging of human ACHN cell lines. <b>2019</b> , 251, 114452	15
682	Revisiting the Role of Graphene Quantum Dots in Ternary Organic Solar Cells: Insights into the Nanostructure Reconstruction and Effective Fister Resonance Energy Transfer. <b>2019</b> , 2, 8826-8835	7
681	Organogels Based on PEDOT:PSS and Carbon-dots for Efficient Hole Transport in Organic Photovoltaics. <b>2019</b> , 40, 1240-1243	2

680	Synthesis and characterization of graphene quantum dots. <b>2019</b> , 5,	4
679	The Influence of Functional Group on Photoluminescence Properties of Carbon Dots. <b>2019</b> , 8, R176-R182	1
678	An efficient flexible graphene-based light-emitting device. <b>2019</b> , 1, 4745-4754	14
677	Dual-response detection of Ni and Cu ions by a pyrazolopyrimidine-based fluorescent sensor and the application of this sensor in bioimaging <b>2019</b> , 9, 35671-35676	11
676	A protocol for size separation of nanographenes <b>2019</b> , 9, 33843-33846	8
675	Design and photophysical insights on graphene quantum dots for use as nanosensor in differentiating methamphetamine and morphine in solution. <b>2019</b> , 206, 448-453	14
674	Anthrax biomarker: An ultrasensitive fluorescent ratiometry of dipicolinic acid by using terbium(III)-modified carbon dots. <b>2019</b> , 191, 443-448	42
673	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. <b>2019</b> , 11, 2243-2253	57
672	Enhancement of Dye-sensitized Solar Cells Efficiency Using Graphene Quantum Dots as Photoanode. <b>2019</b> , 40, 56-61	24
671	A review on nanostructured carbon quantum dots and their applications in biotechnology, sensors, and chemiluminescence. <b>2019</b> , 196, 456-478	203
670	Engineered Paramagnetic Graphene Quantum Dots with Enhanced Relaxivity for Tumor Imaging.  Nano Letters, <b>2019</b> , 19, 441-448	23
669	Multi-fluorescent cationic carbon dots for solid-state fingerprinting. <b>2019</b> , 208, 428-436	19
668	Dy(III)-induced aggregation emission quenching effect of single-layered graphene quantum dots for selective detection of phosphate in the artificial wetlands. <b>2019</b> , 196, 100-108	14
667	Fabricated nanoplatform of Cu(II)-functionalized mimetic-peroxidase with catalytic property toward sensitive monitoring of hydrogen peroxide. <b>2019</b> , 284, 684-694	7
666	Ultrafine 1D graphene interlayer in g-C3N4/graphene/recycled carbon fiber heterostructure for enhanced photocatalytic hydrogen generation. <b>2019</b> , 359, 1352-1359	32
665	Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. <b>2019</b> , 186, 50	22
664	A novel fluorescence "turn off-on" sensor based on N-doped graphene quantum dots in amino acid ionic liquid medium and its application. <b>2019</b> , 197, 59-67	15
663	Separation of Spectroscopically Uniform Nanographenes. <b>2019</b> , 14, 1786-1791	7

662	State-of-the-Art and Trends in Synthesis, Properties, and Application of Quantum Dots-Based Nanomaterials. <b>2019</b> , 36, 1800302	16
661	Facile Synthesis of Fluorescent Nitrogen-Doped Carbon Quantum Dots Using Scindapsus as a Carbon Source. <b>2019</b> , 216, 1800404	8
660	A novel magnetic fluorescent biosensor based on graphene quantum dots for rapid, efficient, and sensitive separation and detection of circulating tumor cells. <b>2019</b> , 411, 985-995	44
659	Highly-flexible and -stable deep-ultraviolet photodiodes made of graphene quantum dots sandwiched between graphene layers. <b>2019</b> , 163, 238-242	16
658	Fluorescent Graphene Quantum Dots for the Determination of Metal Ions. 2019, 215-239	
657	A fluorescent pickering-emulsion stabilizer prepared using carbon nitride quantum dots and laponite nanoparticles. <b>2019</b> , 563, 310-317	14
656	Sulfur and Nitrogen Co-Doped Graphene Quantum Dots as a Fluorescent Quenching Probe for Highly Sensitive Detection toward Mercury Ions. <b>2019</b> , 2, 790-798	44
655	Highly oxidized and exfoliated graphene using a modified Tour approach. <b>2019</b> , 30, 3973-3983	4
654	High-Performance Layer-by-Layer Self-Assembly PANI/GQD-rGO/CFC Electrodes for a Flexible Solid-State Supercapacitor by a Facile Spraying Technique. <b>2019</b> , 2, 1077-1085	21
653	Graphene Quantum Dots-Doped Thin Film Nanocomposite Polyimide Membranes with Enhanced Solvent Resistance for Solvent-Resistant Nanofiltration. <b>2019</b> , 11, 6527-6540	57
652	Preparation and photoluminescence properties of graphene quantum dots by decomposition of graphene-encapsulated metal nanoparticles derived from Kraft lignin and transition metal salts. <b>2019</b> , 206, 403-411	18
651	Graphene quantum dot-assisted preparation of water-borne reduced graphene oxide/polyaniline: From composite powder to layer-by-layer self-assembly film and performance enhancement. <b>2019</b> , 295, 29-38	17
650	Recent Development on the Synthesis Techniques and Properties of Graphene Derivatives. 2019, 77-107	1
649	Enhancement of photovoltaic performance of dye-sensitized solar cells based on TiO2-graphene quantum dots photoanode. <b>2019</b> , 6, 025505	7
648	An ultrasensitive sensor based on quantitatively modified upconversion particles for trace bisphenol A detection. <b>2019</b> , 411, 171-179	10
647	Natural Biomass as Carbon Sources for the Synthesis of Photoluminescent Carbon Dots. <b>2019</b> , 109-134	2
646	Amino-functionalized graphene quantum dots prepared using high-softening point asphalt and their application in Fe3+ detection. <b>2019</b> , 467-468, 446-455	49
645	Ultra-small amorphous carbon dots: preparation, photoluminescence properties, and their application as TiO2 photosensitizers. <b>2019</b> , 54, 5280-5293	15

644	Enhanced Visible-Light Photocatalytic Activity of a TiO2 Membrane-Assisted with N-Doped Carbon Quantum Dots and SiO2 Opal Photonic Crystal. <b>2019</b> , 58, 120-127	11
643	Aqueous synthesis of amphiphilic graphene quantum dots and their application as surfactants for preparing of fluorescent polymer microspheres. <b>2019</b> , 563, 77-83	16
642	A novel DFF-ONIbiosensor based on nanosurface energy transfer between gold nanocrosses and graphene quantum dots for intracellular ATP sensing and tracking. <b>2019</b> , 282, 910-916	19
641	Selective sensing of curcumin using L-cysteine derived blue luminescent graphene quantum dots. <b>2019</b> , 110, 32-38	11
640	Tuning the photoluminescence of graphene oxide quantum dots by photochemical fluorination. <b>2019</b> , 141, 331-338	20
639	Dependence of characteristic interlayer vibration modes on interlayer spin arrangement in stacked graphene nanofragments. <b>2019</b> , 141, 339-347	2
638	Graphene Quantum Dots-Coated Bismuth Nanoparticles for Improved CT Imaging and Photothermal Performance. <b>2020</b> , 19, 1850043	10
637	Fluorescence of functionalized graphene quantum dots prepared from infrared-assisted pyrolysis of citric acid and urea. <b>2020</b> , 217, 116774	32
636	Turn-on fluorescent assay for antioxidants based on their inhibiting polymerization of dopamine on graphene quantum dots. <b>2020</b> , 225, 117516	8
635	Highly biocompatible graphene quantum dots: green synthesis, toxicity comparison and fluorescence imaging. <b>2020</b> , 55, 1198-1215	31
634	Nitrogen-Functionalized Graphene Quantum Dots: A Versatile Platform for Integrated Optoelectronic Devices. <b>2020</b> , 20, 429-439	6
633	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. <b>2020</b> , 59, 8542-8551	16
632	Carbon dots derived from pea for specifically binding with Cryptococcus neoformans. 2020, 589, 113476	4
631	Polyurethane/Nitrogen-Doped Graphene Quantum Dot (N-GQD) nanocomposites: synthesis, characterization, thermal, mechanical and shape memory properties. <b>2020</b> , 59, 398-416	11
630	Polyanilinegraphene quantum dots (PANIGQDs) hybrid for plastic solar cell. <b>2020</b> , 30, 1-11	11
629	Recent Advances and Sensing Applications of Carbon Dots. <b>2020</b> , 4, 1900387	75
628	Flexible supercapacitor electrode based on lignosulfonate-derived graphene quantum dots/graphene hydrogel. <b>2020</b> , 78, 105407	17
627	Photoluminescent functionalized carbon quantum dots loaded electroactive Silk fibroin/PLA nanofibrous bioactive scaffolds for cardiac tissue engineering. <b>2020</b> , 202, 111680	25

626	Down-shifting by quantum dots for silicon solar cell applications. <b>2020</b> , 443-477	4
625	The modulation of the photophysical and photodynamic therapy activities of a phthalocyanine by detonation nanodiamonds: Comparison with graphene quantum dots and carbon nanodots. <b>2020</b> , 101, 107617	12
624	Chirality-Embedded Nanographenes. <b>2020</b> , 59, 669-673	14
623	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <b>2020</b> , 185, 110612	5
622	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. <b>2020</b> , 132, 8620-8629	2
621	In situ generation of carbon dots within a polymer matrix. <b>2020</b> , 188, 122159	11
620	Influence of Oxidized Graphene Quantum Dots as Photosensitizers. <b>2020</b> , 20, 3432-3436	2
619	High-Performance Photodetector Based on a Graphene Quantum Dot/CH3NH3PbI3 Perovskite Hybrid. <b>2020</b> , 2, 230-237	16
618	Bright carbon nanodots for miRNA diagnostics coupled with concatenated hybridization chain reaction. <b>2020</b> , 56, 1175-1178	20
617	A new fluorescence probe comprising nitrogen-doped graphene quantum dots for the selective and quantitative determination of cerium(IV). <b>2020</b> , 44, 797-806	9
616	Graphene quantum dots for energy storage and conversion: from fabrication to applications. <b>2020</b> , 4, 421-436	46
615	Spectroscopic studies of the optical properties of carbon dots: recent advances and future prospects. <b>2020</b> , 4, 472-488	35
614	Carbon dots: a booming material for biomedical applications. <b>2020</b> , 4, 821-836	80
613	The synergistic effect of nitrogen and fluorine co-doping in graphene quantum dot catalysts for full water splitting and supercapacitor. <b>2020</b> , 507, 145157	40
612	Blue luminescent graphene quantum dot conjugated cysteamine functionalized-gold nanoparticles (GQD-AuNPs) for sensing hazardous dye Erythrosine B. <b>2020</b> , 229, 117960	14
611	Polycaprolactone/Graphene Nanocomposites: Synthesis, Characterization and Mechanical Properties of Electrospun Nanofibers. <b>2020</b> , 30, 1566-1577	21
610	Novel carbon-based separation membranes composed of integrated zero- and one-dimensional nanomaterials. <b>2020</b> , 8, 1084-1090	10
609	One-pot millisecond preparation of carbon-coated SiO2 nanoparticles. <b>2020</b> , 101, 107645	2

608	Modified graphene quantum dots-zinc oxide nanocomposites for photocatalytic degradation of organic dyes and commercial herbicide. <b>2020</b> , 39, 81-94	12
607	A synthesis of graphene quantum dots/hollow TiO2 nanosphere composites for enhancing visible light photocatalytic activity. <b>2020</b> , 31, 1430-1441	8
606	Graphene quantum dots as singlet oxygen producer or radical quencher - The matter of functionalization with urea/thiourea. <b>2020</b> , 109, 110539	19
605	The role of the chemical composition on the photoluminescence properties of N-doped carbon nanoparticles. <b>2020</b> , 219, 116954	5
604	Folic acid-conjugated nitrogen-doped graphene quantum dots as a fluorescent diagnostic material for MCF-7 cells. <b>2020</b> , 31, 135701	14
603	A graphene quantum dots-Pb based fluorescent switch for selective and sensitive determination of D-penicillamine. <b>2020</b> , 229, 117924	8
602	Pulsed laser ablation based synthetic route for nitrogen-doped graphene quantum dots using graphite flakes. <b>2020</b> , 506, 144998	33
601	Fluorescent carbon quantum dots synthesized using phenylalanine and citric acid for selective detection of Fe ions. <b>2020</b> , 229, 117944	42
600	Synthesis of N, Zn-doped carbon dots for the detection of Fe ions and bactericidal activity against Escherichia coli and Staphylococcus aureus. <b>2020</b> , 202, 111734	25
599	Chirality-Embedded Nanographenes. <b>2020</b> , 132, 679-683	6
598	Carbon nanomaterials with sp2 or/and sp hybridization in energy conversion and storage applications: A review. <b>2020</b> , 26, 349-370	35
598 597		35
	applications: A review. <b>2020</b> , 26, 349-370  Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for	
597	applications: A review. <b>2020</b> , 26, 349-370  Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. <b>2020</b> , 16, e1905767  DNA-linked CdSe QDs/AGQDs \(\mathbb{Z}\)-scheme\(\mathbb{E}\)ystem: Ultrasensitive and highly selective	110
597 596	applications: A review. <b>2020</b> , 26, 349-370  Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. <b>2020</b> , 16, e1905767  DNA-linked CdSe QDs/AGQDs Z-schemeßystem: Ultrasensitive and highly selective photoelectrochemical sensing platform with negative background signal. <b>2020</b> , 305, 127480  A novel nanobiosorbent of functionalized graphene quantum dots from rice husk with barium	110
<ul><li>597</li><li>596</li><li>595</li></ul>	Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. 2020, 16, e1905767  DNA-linked CdSe QDs/AGQDs Z-schemeßystem: Ultrasensitive and highly selective photoelectrochemical sensing platform with negative background signal. 2020, 305, 127480  A novel nanobiosorbent of functionalized graphene quantum dots from rice husk with barium hydroxide for microwave enhanced removal of lead (II) and lanthanum (III). 2020, 298, 122514  Boost the performance of inverted perovskite solar cells with PEDOT:PSS/Graphene quantum dots	110 13 34
<ul><li>597</li><li>596</li><li>595</li><li>594</li></ul>	Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. 2020, 16, e1905767  DNA-linked CdSe QDs/AGQDs Z-schemeßystem: Ultrasensitive and highly selective photoelectrochemical sensing platform with negative background signal. 2020, 305, 127480  A novel nanobiosorbent of functionalized graphene quantum dots from rice husk with barium hydroxide for microwave enhanced removal of lead (II) and lanthanum (III). 2020, 298, 122514  Boost the performance of inverted perovskite solar cells with PEDOT:PSS/Graphene quantum dots composite hole transporting layer. 2020, 78, 105575  New polyvinyl alcohol/carbon quantum dots (PVA/CQDs) nanocomposite films: Structural, optical	110 13 34 12

## (2020-2020)

590	Effective carbon dioxide stabilization of nanofibers electrospun from raw coal tar and polyacrylonitrile. <b>2020</b> , 276, 123229	5
589	Carbon Dots Derived from Facile Tailoring of Shaerhu Lignite as a Novel Fluorescence Sensor with High-Selectivity and Sensitivity for Cu2+ Detection. <b>2020</b> , 5, 12125-12130	3
588	Surface functionality and formation mechanisms of carbon and graphene quantum dots. <b>2020</b> , 110, 108101	6
587	Silver nanoparticles coated by green graphene quantum dots for accelerating the healing of MRSA-infected wounds. <b>2020</b> , 8, 6670-6682	17
586	Simple synthesis of photoluminescent carbon dots from a marine polysaccharide found in shark cartilage. <b>2020</b> , 47, 36-42	6
585	Zinc Oxide Sensitized Graphene Quantum Dots InO-GQDsIA Hybrid Concept to Study Charge Transfer and its Catalytic Applicability to Synthesize Tetrasubstituted Propargylamines. <b>2020</b> , 9, 2162-2169	3
584	A review on graphene quantum dots and their nanocomposites: from laboratory synthesis towards agricultural and environmental applications. <b>2020</b> , 7, 3710-3734	41
583	Coal-Based Fluorescent Zero-Dimensional Carbon Nanomaterials: A Short Review. <b>2020</b> , 34, 13291-13306	7
582	Tailoring Multi-Walled Carbon Nanotubes into Graphene Quantum Sheets. <b>2020</b> , 12, 47784-47791	5
581	Synthesis of green fluorescent carbon dots from carbon nano-onions and graphene oxide <b>2020</b> , 10, 36404-36412	3
580	Large and Emissive Crystals from Carbon Quantum Dots onto Interfacial Organized Templates. <b>2020</b> , 59, 20167-20173	9
579	One-step green approach to synthesize highly fluorescent carbon quantum dots from banana juice for selective detection of copper ions. <b>2020</b> , 8, 103720	51
578	Microwave-assisted exfoliation and tearing of graphene oxide in the presence of TiO2 nanoparticles. <b>2020</b> , 18, 103200	10
577	Graphene quantum dot-sensitized Zn-MOFs for efficient visible-light-driven carbon dioxide reduction. <b>2020</b> , 10, 5666-5676	15
576	New-generation quantum dots as contrast agent in imaging. <b>2020</b> , 525-556	
575	Adhesive graphene grown on bioceramics with photothermal property. <b>2020</b> , 17, 100322	4
574	Optimization of fluorescence and surface adsorption of citric acid/ethanolamine carbon nanoparticles for subsurface tracers. <b>2020</b> , 169, 395-402	6
573	State-of-the-Art on the Preparation, Modification, and Application of Biomass-Derived Carbon Quantum Dots. <b>2020</b> , 59, 22017-22039	23

572	Metal-Free Carbon-Based Supercapacitors Comprehensive Review. 2020, 1, 410-438	11
571	Subsequent monitoring of ferric ion and ascorbic acid using graphdiyne quantum dots-based optical sensors. <b>2020</b> , 187, 657	14
570	Investigation of antimicrobial activity and cytotoxicity of synthesized surfactant-modified carbon nanotubes/polyurethane electrospun nanofibers. <b>2020</b> , 24, 100612	9
569	Development of fluorescence/MR dual-modal manganese-nitrogen-doped carbon nanosheets as an efficient contrast agent for targeted ovarian carcinoma imaging. <b>2020</b> , 18, 175	4
568	Enhanced Oxygen Reduction Catalysis of Carbon Nanohybrids from Nitrogen-Rich Edges. <b>2020</b> , 36, 13752-137	5 <sub>4</sub> β
567	Carbon Dots for Forensic Applications: A Critical Review. <b>2020</b> , 10,	13
566	Multiplexed Graphene Quantum Dots with Excitation-Wavelength-Independent Photoluminescence, as Two-Photon Probes, and in Ultraviolet-Near Infrared Bioimaging. <b>2020</b> , 14, 11502-1150	)§ <sup>6</sup>
565	Human virus detection with graphene-based materials. <b>2020</b> , 166, 112436	74
564	Multiscale 3D hybrid carbon microelectrodes with candle soot and reduced GO nanoparticles as binder-free anode: An approach beyond 3D for high rate & high performance Li-ion batteries. <b>2020</b> , 473, 228600	5
563	Detecting Mercury (II) and Thiocyanate Using "Turn-on" Fluorescence of Graphene Quantum Dots. <b>2020</b> , 30, 1181-1187	10
562	A brief review on supercapacitor energy storage devices and utilization of natural carbon resources as their electrode materials. <b>2020</b> , 282, 118796	83
561	Large and Emissive Crystals from Carbon Quantum Dots onto Interfacial Organized Templates. <b>2020</b> , 132, 20342-20348	
560	Preparation of graphene quantum dots modified hydrogenated carboxylated nitrile rubber interpenetrating cross-linked film. <b>2020</b> , 298, 1361-1368	1
559	Graphene based nanomaterials for strain sensor application review. 2020, 8, 103743	63
558	Facile pH-sensitive optical detection of pathogenic bacteria and cell imaging using multi-emissive nitrogen-doped carbon dots. <b>2020</b> , 159, 105324	5
557	Spectroscopic studies, molecular structure optimization and investigation of structural and electrical properties of novel and biodegradable Chitosan-GO polymer nanocomposites. <b>2020</b> , 55, 14829-1484	78
556	Highly luminescent polyethylene glycol-passivated graphene quantum dots for light emitting diodes <b>2020</b> , 10, 27418-27423	7
555	Emerging Low-Dimensional Nanoagents for Bio-Microimaging. <b>2020</b> , 30, 2003147	8

554	Engineering of Thermoplastic Elastomer with Graphene and Other Anisotropic Nanofillers. 2020,	2
553	Graphene quantum dots: Emerging organic materials with remarkable and tunable luminescence features. <b>2020</b> , 61, 152554	9
552	Synthesis and cytocompatibility analysis of carbon nanodots derived from palmyra palm leaf for multicolor imaging applications. <b>2020</b> , 18, 100334	4
551	Subpicosecond Charge Separation Time Scale at Graphene Quantum Dot Surface. <b>2020</b> , 124, 24115-24125	7
550	Glucose Dehydrogenase-like Nanozyme Based on Black Phosphorus Nanosheets for High-Performance Biofuel Cells. <b>2020</b> , 8, 16549-16554	11
549	Machine-Learning-Driven Synthesis of Carbon Dots with Enhanced Quantum Yields. <b>2020</b> , 14, 14761-14768	46
548	Graphene oxide sheets and quantum dots inhibit ⊞ynuclein amyloid formation by different mechanisms. <b>2020</b> , 12, 19450-19460	15
547	Silk fibroin-derived nitrogen-doped carbon quantum dots anchored on TiO2 nanotube arrays for heterogeneous photocatalytic degradation and water splitting. <b>2020</b> , 78, 105313	47
546	Twisted Bilayer Graphene Quantum Dots for Chiral Nanophotonics. <b>2020</b> , 124, 22704-22710	10
545	Linear versus Branched Peptide with Same Amino Acid Sequence for Legumain-Targeting in Macrophages: Targeting Efficiency and Bioimaging Potential. <b>2020</b> , 5, 9911-9919	O
544	Stimulus Response of GQD-Sensitized Tb/GMP ICP Nanoparticles with Dual-Responsive Ratiometric Fluorescence: Toward Point-of-Use Analysis of Acetylcholinesterase and Organophosphorus Pesticide Poisoning with Acetylcholinesterase as a Biomarker. <b>2020</b> , 12, 42119-42128	22
543	Eco-Friendly Fluorescent Carbon Nanodots: Characteristics and Potential Applications. 2020,	2
542	A ratiometric fluorescence probe based on graphene quantum dots and o-phenylenediamine for highly sensitive detection of acetylcholinesterase activity. <b>2020</b> , 187, 511	13
541	Diffuse spectra model of photoluminescence in carbon quantum dots. <b>2020</b> , 43, 1	
540	Effect of Synthesis Temperature of Magnetic Iluorescent Nanoparticles on Properties and Cellular Imaging. <b>2020</b> , 30, 4597-4605	1
539	Recent Developments of Carbon Dots in Biosensing: A Review. <b>2020</b> , 5, 2724-2741	116
538	Biocompatible nitrogen-doped carbon dots: synthesis, characterization, and application. 2020,	25
537	Fundamental Understanding of the Formation Mechanism for Graphene Quantum Dots Fabricated by Pulsed Laser Fragmentation in Liquid: Experimental and Theoretical Insight. <b>2020</b> , 16, e2003538	6

Recent advances in graphene-based materials for dye-sensitized solar cell fabrication.. 2020, 10, 44453-44469 17 536 Cytotoxicity and Bioimaging Study for NHDF and HeLa Cell Lines by Using Graphene Quantum Pins. 535 2020, 10, Carbon Dots: A New Type of Carbon-Based Nanomaterial with Wide Applications. 2020, 6, 2179-2195 226 534 Electrochemical efficacies of coal derived nanocarbons. 2020, 8, 459 533 4 High yield synthesis of graphene quantum dots from biomass waste as a highly selective probe for 532 35 Fe sensing. 2020, 10, 21262 Graphene Quantum Dots for the Mobilization and Solubilization of Nonaqueous Phase Liquids in 2 531 Natural Porous Media. 2020, 3, 10691-10701 Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and 42 530 Toughening Agents for Elastomeric Gels. 2020, 12, 51940-51951 Crosslinked chitosan embedded TiO NPs and carbon dots-based nanocomposite: An excellent 529 9 photocatalyst under sunlight irradiation. 2020, 164, 3676-3686 Carbon-Based Quantum Dots with Solid-State Photoluminescent: Mechanism, Implementation, and 528 64 Application. **2020**, 16, e2004621 Graphene quantum dots based on maltose as a high yield photocatalyst for efficient 527 photodegradation of imipramine in wastewater samples. 2020, 18, 1531-1540 Hydrothermal synthesis of quantum dots dispersed on conjugated polymer as an efficient 526 14 electrodes for highly stable hybrid supercapacitors. **2020**, 117, 107941 Graphene quantum dots coated LiCoO2 for improved cycling stability and thermal safety at high 525 4 voltage. 2020, 866, 114109 Preparation of Biomass-Based Carbon Dots with Aggregation Luminescence Enhancement from 524 12 Hydrogenated Rosin for Biological Imaging and Detection of Fe. 2020, 5, 11842-11848 Carbon dot-based composites for catalytic applications. 2020, 22, 4034-4054 523 40 Spectroscopic Study of Ensemble and Individual Graphene Quantum Dots. 2020, 124, 12112-12119 522 3 Direct Dual Z-Scheme Bi2WO6/GQDs/WO3 Inverse Opals for Enhanced Photocatalytic Activities 521 27 under Visible Light. 2020, 8, 7921-7927 ZnO Nanosheets Modified with Graphene Quantum Dots and SnO2 Quantum Nanoparticles for 520 20 Room-Temperature H2S Sensing. 2020, 3, 5220-5230 Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. 2020, 10, 7074 519 15

518	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. 2020, 21,	36
517	Graphene quantum dots combined with the oxidase-mimicking activity of Ce4+ for ratiometric fluorescent detection of Ce4+ and alendronate sodium. <b>2020</b> , 319, 128321	18
516	A polyimide-pyrolyzed carbon waste approach for the scalable and controlled electrochemical preparation of size-tunable graphene. <b>2020</b> , 12, 11971-11978	6
515	Sensitive and selective sensing system of metallothioneins based on carbon quantum dots and gold nanoparticles. <b>2020</b> , 1125, 177-186	8
514	Selective homocysteine detection of nitrogen-doped graphene quantum dots: Synergistic effect of surface catalysis and photoluminescence sensing. <b>2020</b> , 267, 116432	3
513	Water-Dispersible Fluorescent Carbon Dots as Bioimaging Agents and Probes for Hg2+ and Cu2+ Ions. <b>2020</b> , 3, 7096-7104	<b>4</b> 0
512	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. <b>2020</b> , 32, e2000936	38
511	Controllable synthesis of Graphene Quantum Dots with Tunable-Photoluminescence. <b>2020</b> , 768, 022073	1
510	Investigating the Properties of Cetyltrimethylammonium Bromide/Hydroxylated Graphene Quantum Dots Thin Film for Potential Optical Detection of Heavy Metal Ions. <b>2020</b> , 13,	11
509	Graphene quantum dot based materials for sensing, bio-imaging and energy storage applications: a review <b>2020</b> , 10, 23861-23898	92
508	Charcoal derived graphene quantum dots for flexible supercapacitor oriented applications. <b>2020</b> , 44, 11085-11091	12
507	Conformational Behavior and Optical Properties of a Fluorophore Dimer as a Model of Luminescent Centers in Carbon Dots. <b>2020</b> , 124, 14327-14337	13
506	Efficiency Enhancement of Dye-Sensitized Solar Cells Based on Gracilaria/Ulva Using Graphene Quantum Dot. <b>2020</b> , 14, 393-402	10
505	An ultrasonic-assisted synthesis of leather-derived luminescent graphene quantum dots: catalytic reduction and switch on-off probe for nitro-explosives <b>2020</b> , 10, 22959-22965	1
504	Two dimensional semiconducting polymers. <b>2020</b> , 4, 3472-3486	1
503	Plant Part-Derived Carbon Dots for Biosensing. <b>2020</b> , 10,	23
502	Luminescent Quantum Dots from Nonluminescent 2D Pyrediyne for Bioimaging Applications. <b>2020</b> , 7, 1902209	2
501	Recent Advances on Graphene Quantum Dots for Bioimaging Applications. <b>2020</b> , 8, 424	73

500	Microplasma-enabled colloidal nitrogen-doped graphene quantum dots for broad-range fluorescent pH sensors. <b>2020</b> , 167, 675-684	24
499	Graphene Quantum Dots-Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. <b>2020</b> , 10, 2001275	52
498	Advances in carbon dots: from the perspective of traditional quantum dots. 2020, 4, 1586-1613	94
497	Boosting the photocatalytic CO reduction of metal-organic frameworks by encapsulating carbon dots. <b>2020</b> , 12, 9533-9540	34
496	Engineering of Pd Nanosponge Armored with Graphene Dots Using Br toward High-Performance and Stable Electrocatalyst for the Hydrogen Evolution Reaction. <b>2020</b> , 12, 15500-15506	20
495	Exploration of the potential efficacy of natural resource-derived blue-emitting graphene quantum dots in cancer therapeutic applications. <b>2020</b> , 44, 5366-5376	14
494	Ultrasensitive Fe3+ ion detection based on carbon quantum dot-functionalized solution-gated graphene transistors. <b>2020</b> , 8, 4685-4689	10
493	Preparation and Biomedical Applications of Multicolor Carbon Dots: Recent Advances and Future Challenges. <b>2020</b> , 37, 1900489	16
492	Crosslinked carbon nanodots with highly sulfonated polyphenylsulfone as proton exchange membrane for fuel cell applications. <b>2020</b> , 45, 9979-9988	14
491	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <b>2020</b> , 113, 100665	37
490	Confined synthesis of carbon dots with tunable long-wavelength emission in a 2-dimensional layered double hydroxide matrix. <b>2020</b> , 12, 7888-7894	8
489	Nanotube confinement-induced g-C3N4/TiO2 nanorods with rich oxygen vacancies for enhanced photocatalytic water decontamination. <b>2020</b> , 126, 1	2
488	Graphene-based nanomaterials for healthcare applications. <b>2020</b> , 45-81	6
487	Multi-Color Fluorescent Carbon Dots: Graphitized sp Conjugated Domains and Surface State Energy Level Co-Modulate Band Gap Rather Than Size Effects. <b>2020</b> , 26, 8129-8136	30
486	Graphene quantum dot-decorated carbon electrodes for energy storage in vanadium redox flow batteries. <b>2020</b> , 12, 7834-7842	11
485	Targeted tumour theranostics in mice via carbon quantum dots structurally mimicking large amino acids. <b>2020</b> , 4, 704-716	111
484	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. <b>2020</b> , 12, 19866-19873	18
483	Chemically Functionalized Two-Dimensional Carbon Materials. <b>2020</b> , 15, 2316-2328	10

## (2020-2020)

482	The feasibility and usability of DNA-dot bioconjugation to antibody for targeted in vitro cancer cell fluorescence imaging. <b>2020</b> , 209, 111944	10
481	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. <b>2020</b> , 12, 100091	26
480	A Novel Route to High-Quality Graphene Quantum Dots by Hydrogen-Assisted Pyrolysis of Silicon Carbide. <b>2020</b> , 10,	9
479	Graphene Quantum Dots with High Yield and High Quality Synthesized from Low Cost Precursor of Aphanitic Graphite. <b>2020</b> , 10,	21
478	Microwave assisted synthesis of boron and nitrogen rich graphitic quantum dots to enhance fluorescence of photosynthetic pigments. <b>2020</b> , 24, 100975	9
477	Graphene Quantum Dot Reinforced Electrospun Carbon Nanofiber Fabrics with High Surface Area for Ultrahigh Rate Supercapacitors. <b>2020</b> , 12, 11669-11678	40
476	Yellow emissive nitrogen-doped graphene quantum dots as a label-free fluorescent probe for Fe3+ sensing and bioimaging. <b>2020</b> , 104, 107749	16
475	High grafting strength from chemically bonded 2D layered material onto carbon microfibres for reinforced composites and ultra-long flexible cable electronic devices. <b>2020</b> , 24, 100994	2
474	Optical properties of graphene quantum dots: the role of chiral symmetry. <b>2020</b> , 7, 025041	2
473	A novel preparation method and characterization of fluorescent cellulose fibers. <b>2020</b> , 27, 3651-3659	5
472	Nanocarbon fertilizers: Implications of carbon nanomaterials in sustainable agriculture production. <b>2020</b> , 297-321	6
471	Hydroxyl edge-functionalized graphene quantum dots for gas-sensing applications. <b>2020</b> , 105, 107790	24
470	Layer-by-Layer Self-Assembly of Hollow Nitrogen-Doped Carbon Quantum Dots on Cationized Textured Crystalline Silicon Solar Cells for an Efficient Energy Down-Shift. <b>2020</b> , 12, 10369-10381	15
469	A Facile Microwave-Assisted Hydrothermal Synthesis of Graphene Quantum Dots for Organic Solar Cell Efficiency Improvement. <b>2020</b> , 2020, 1-8	13
468	Borylation of Diazonium Salts by Highly Emissive and Crystalline Carbon Dots in Water. <b>2020</b> , 13, 1715-1719	10
467	Enhanced H2 evolution and the interfacial electron transfer mechanism of titanate nanotube sensitized with CdS quantum dots and graphene quantum dots. <b>2020</b> , 45, 6476-6486	9
466	Dual roles of a transparent polymer film containing dispersed N-doped carbon dots: A high-efficiency blue light converter and UV screen. <b>2020</b> , 510, 145405	16
465	Introduction: carbon and carbon nanomaterials. <b>2020</b> , 23-45	O

464	Graphene quantum dots: efficient mechanosynthesis, white-light and broad linear excitation-dependent photoluminescence and growth inhibition of bladder cancer cells. <b>2020</b> , 49, 2308-2316	3
463	Electrochemical sensing of mercury ions in electrolyte solutions by nitrogen-doped graphene quantum dot electrodes at ultralow concentrations. <b>2020</b> , 302, 112593	17
462	Sustainable carbon dots as Eurn-offIfluorescence sensor for highly sensitive Pb2+ detection. <b>2020</b> , 3, 51-56	9
461	One-Step Synthesis of Diamine-Functionalized Graphene Quantum Dots from Graphene Oxide and Their Chelating and Antioxidant Activities. <b>2020</b> , 10,	28
460	CO-triggered reversible phase transfer of graphene quantum dots for visible light-promoted amine oxidation. <b>2020</b> , 12, 4410-4417	13
459	Spatial Heterojunction in Nanostructured TiO and Its Cascade Effect for Efficient Photocatalysis.  Nano Letters, <b>2020</b> , 20, 3122-3129	38
458	Dual emission carbon dots as enzyme mimics and fluorescent probes for the determination of o-phenylenediamine and hydrogen peroxide. <b>2020</b> , 187, 292	14
457	Carbon quantum dots interfacial modified graphene/silicon Schottky barrier solar cell. <b>2020</b> , 835, 155268	13
456	Facile one-pot synthesis of self-assembled nitrogen-doped carbon dots/cellulose nanofibril hydrogel with enhanced fluorescence and mechanical properties. <b>2020</b> , 22, 3296-3308	26
455	Graphene-based quantum dot emitters for light-emitting diodes. <b>2020</b> , 117-150	2
454	Electrochemical synthesis of graphene quantum dots from graphene oxide at room temperature and its soil moisture sensing properties. <b>2020</b> , 165, 9-17	43
453	Making Graphene Luminescent by Direct Laser Writing. <b>2020</b> , 124, 8371-8377	7
452	Bridge between Temperature and Light: Bottom-Up Synthetic Route to Structure-Defined Graphene Quantum Dots as a Temperature Probe In Vitro and in Cells. <b>2020</b> , 12, 22002-22011	13
45 <sup>1</sup>	Hybrid of quantum dots for interfacial tension reduction and reservoir alteration wettability for enhanced oil recovery (EOR). <b>2020</b> , 307, 112984	14
450	Tunable Photoluminescence of Carbon Dots used for Homogeneous Glucose Sensing Assay. <b>2020</b> , 159, 107580	3
449	Orange-red, green, and blue fluorescence carbon dots for white light emitting diodes. <b>2020</b> , 50, 184-191	15
448	Highly Efficient Orange Emissive Graphene Quantum Dots Prepared by Acid-Free Method for White LEDs. <b>2020</b> , 8, 6657-6666	18
447	Carbon and graphene quantum dots: a review on syntheses, characterization, biological and sensing applications for neurotransmitter determination <b>2020</b> , 10, 15406-15429	177

# (2021-2020)

446	Vanadium coordination compounds loaded on graphene quantum dots (GQDs) exhibit improved pharmaceutical properties and enhanced anti-diabetic effects. <b>2020</b> , 12, 9219-9230	15
445	Photocatalytic activation of peroxymonosulfate by surface-tailored carbon quantum dots. <b>2020</b> , 395, 122695	36
444	Effect of turmeric oil and halloysite nano clay as anti-oxidant and anti-wear additives in rice bran oil. <b>2021</b> , 235, 1085-1092	5
443	Graphene quantum dots: From efficient preparation to safe renal excretion. <b>2021</b> , 14, 674-683	7
442	Current and future perspectives of carbon and graphene quantum dots: From synthesis to strategy for building optoelectronic and energy devices. <b>2021</b> , 135, 110391	52
441	Synthesis of N-doped graphene quantum dots from bulk N-doped carbon nanofiber film for fluorescence detection of Fe3+ and ascorbic acid. <b>2021</b> , 29, 218-226	4
440	High quantum yield photoluminescent N-doped carbon dots for switch sensing and imaging. <b>2021</b> , 222, 121663	28
439	Novel paper- and fiber optic-based fluorescent sensor for glucose detection using aniline-functionalized graphene quantum dots. <b>2021</b> , 329, 129250	17
438	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. <b>2021</b> , 612, 125978	3
437	Enhanced fluorescence of Zn-doped carbon quantum dots using zinc citrate chelate as precursor for fluorescent sensor applications. <b>2021</b> , 264, 114955	8
436	Self-feedback autocatalysis in free radical triggered photosynthesis of N-doped graphene quantum dots. <b>2021</b> , 271, 116643	1
435	High quantum yield boron-doped carbon dots: a ratiometric fluorescent probe for highly selective and sensitive detection of Mg2+ ions. <b>2021</b> , 9, 1632-1640	15
434	Microwave-assisted ultrafast in-situ growth of N-doped carbon quantum dots on multiwalled carbon nanotubes as an efficient electrocatalyst for photovoltaics. <b>2021</b> , 586, 349-361	18
433	Role of nanomaterials and surfactants for the preparation of graphene nanofluid: A review. <b>2021</b> , 44, 1136-1143	4
432	Multicolor Fluorescent Graphene Oxide Quantum Dots for Sensing Cancer Cell Biomarkers. <b>2021</b> , 4, 211-219	5
431	Green synthesis of reduced-graphene oxide quantum dots and application for colorimetric biosensor. <b>2021</b> , 318, 112495	9
430	Tunable fluorescent carbon dots: synthesis progress, fluorescence origin, selective and sensitive volatile organic compounds detection. <b>2021</b> , 46, 349-370	9
429	Edge-Functionalized Nanographenes. <b>2021</b> , 27, 187-199	6

428	An advanced molecularly imprinted electrochemical sensor for the highly sensitive and selective detection and determination of Human IgG. <b>2021</b> , 137, 107671	13
427	Recent advancements in synthesis and property control of graphene quantum dots for biomedical and optoelectronic applications. <b>2021</b> , 5, 627-658	22
426	Carbon and graphene quantum dots in fuel cell application: An overview. <b>2021</b> , 45, 1396-1424	21
425	An integrated and multi-technique approach to characterize airborne graphene flakes in the workplace during production phases. <b>2021</b> , 13, 3841-3852	6
424	A short review on electrochemical exfoliation of graphene and graphene quantum dots. <b>2021</b> , 31, 371-388	7
423	Design and Fabrication of Advanced Cathode and Anode Materials for Hybrid Supercapacitors Based on Graphitic Carbon Quantum Dot-Decorated Reduced Graphene Oxide Composite Aerogels. <b>2021</b> , 4, 714-729	8
422	Green synthesis of carbon nanoparticles: characterization and their biocidal properties. 2021, 277-306	O
421	Metal-organic framework modified pine needle-derived N, O-doped magnetic porous carbon embedded with Au nanoparticles for adsorption and catalytic degradation of tetracycline. <b>2021</b> , 278, 123575	16
420	Tunable optical property and zero-field splitting of transition metal adatom-graphene quantum dot systems. <b>2021</b> , 9, 12550-12558	
419	Carbon dots: Discovery, structure, fluorescent properties, and applications. <b>2021</b> , 10, 134-156	15
418	Chapter 6. Carbon Dot-based Composites: Recent Progress, Challenges and Future Outlook. <b>2021</b> , 113-141	
417	"Luminescent carbon nanodots: Current prospects on synthesis, properties and sensing applications". <b>2020</b> ,	5
416	Catalytic graphitization: A bottom-up approach to graphene and quantum dots derived therefrom A review. <b>2021</b> , 46, 3069-3074	0
415	A Review on Recent Advancements of Graphene and Graphene-Related Materials in Biological Applications. <b>2021</b> , 11, 614	24
414	Synthesis of Carbon Allotropes in Nanoscale Regime. <b>2021</b> , 9-46	
413	Response of primary root to nitrogen-doped carbon dots in Arabidopsis thaliana: alterations in auxin level and cell division activity. <b>2021</b> , 8, 1352-1363	2
412	Enhancing room-temperature NO gas sensing performance based on a metal phthalocyanine/graphene quantum dot hybrid material <b>2021</b> , 11, 5618-5628	4
411	Organic dots (O-dots) for theranostic applications: preparation and surface engineering <b>2021</b> , 11, 2253-2291	4

410	Fluorescence quenching mechanism and the application of green carbon nanodots in the detection of heavy metal ions: a review. <b>2021</b> , 45, 2326-2360		17
409	Dual-excitation and dual-emission carbon dots for Fe detection, temperature sensing, and lysosome targeting. <b>2021</b> , 13, 4246-4255		4
408	Fluorescent graphene oxide derived from carbonized citric acid for copper(II) ions detection. <b>2021</b> , 40, 1443-1450		2
407	Solid waste-derived carbon nanomaterials for supercapacitor applications: a recent overview. <b>2021</b> , 2, 1454-1484		12
406	Solution-Processable Carbon and Graphene Quantum Dots Photodetectors. <b>2021</b> , 157-214		
405	Organic Carbon Dots for Mitigating Neurodegenerative Diseases. <b>2021</b> , 273-287		О
404	Carbon dots: synthesis, properties and biomedical applications. <b>2021</b> , 9, 6553-6575		22
403	Quantum dots for photocatalysis: synthesis and environmental applications. <b>2021</b> , 23, 4931-4954		22
402	Study of carbon quantum dots as smart materials for environmental applications. 2021, 223-239		
401	Overview of Raman Spectroscopy: Fundamental to Applications. <b>2021</b> , 145-184		1
400	Overview of Raman Spectroscopy: Fundamental to Applications. <b>2021</b> , 145-184  Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. <b>2021</b> , 3, 100171		1
	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various	11.5	
400	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. <b>2021</b> , 3, 100171	11.5	
400	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. <b>2021</b> , 3, 100171  Celebrating 20 years of. <i>Nano Letters</i> , <b>2021</b> , 21, 1-2  Fundamental photophysical properties of fluorescent carbon dots and their applications in metal	11.5	
400 399 398	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. 2021, 3, 100171  Celebrating 20 years of. <i>Nano Letters</i> , 2021, 21, 1-2  Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging. 2021, 159-209  Recent advances in graphene quantum dot-based optical and electrochemical (bio)analytical	11.5	1
400 399 398 397	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. 2021, 3, 100171  Celebrating 20 years of. <i>Nano Letters</i> , 2021, 21, 1-2  Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging. 2021, 159-209  Recent advances in graphene quantum dot-based optical and electrochemical (bio)analytical sensors. 2021, 2, 5513-5541	11.5	1
399 398 397 396	Bi-functional gold nanoparticles composites regulated by graphene quantum dots with various surface states. 2021, 3, 100171  Celebrating 20 years of. <i>Nano Letters</i> , 2021, 21, 1-2  Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging. 2021, 159-209  Recent advances in graphene quantum dot-based optical and electrochemical (bio)analytical sensors. 2021, 2, 5513-5541  Synthesis and modification of carbon dots for advanced biosensing application. 2021, 146, 4418-4435  How size, edge shape, functional groups and embeddedness influence the electronic structure and	11.5	1 11 19

392	Coal based carbon dots: Recent advances in synthesis, properties, and applications. <b>2021</b> , 2, 1589-1604	3
391	Green Synthesis of Multifunctional Carbon Dots with Antibacterial Activities. <b>2021</b> , 11,	24
390	Graphene Oxide Quantum Dots Promote Osteogenic Differentiation of Stem Cells from Human Exfoliated Deciduous Teeth via the Wnt/-Catenin Signaling Pathway. <b>2021</b> , 2021, 8876745	5
389	Oral administration of microbiome-friendly graphene quantum dots as therapy for colitis. <b>2021</b> , 8, 025036	3
388	Density functional theory study on optical and electronic properties of co-doped graphene quantum dots based on different nitrogen doping patterns. <b>2021</b> , 113, 108264	5
387	Quantitatively Switchable pH-Sensitive Photoluminescence of Carbon Nanodots. <b>2021</b> , 12, 2727-2735	3
386	Optical processes in carbon nanocolloids. <b>2021</b> , 7, 606-628	27
385	Carbon Dot-Based Biosensors. <b>2021</b> , 1, 2000042	4
384	A Review of Graphene Nanoribbon Field-Effect Transistor Structures. <b>2021</b> , 50, 3169-3186	2
383	Mirror-symmetric magnetic circularly polarized luminescence from CdS/ZnS core-shell quantum dots: Faraday effect in the photoexcited state. <b>2021</b> , 767, 138353	5
382	Clustering-Induced White Light Emission from Carbonized Polymer Dots. <b>2021</b> , 2, 2000161	4
381	Pristine and holey graphene quantum dots: Optical properties using time independent and dependent density functional theory. <b>2021</b> , 128, 114602	3
380	Electrochemical Trimming of Graphene Oxide Affords Graphene Quantum Dots for Fe3+ Detection. <b>2021</b> , 4, 5220-5229	0
379	Nanographenes from Distinct Carbon Sources. <b>2021</b> , 94, 1394-1399	4
378	Carbon dots prepared by thermal reactions and selective detections of copper and mercury ions in visible spectrum. <b>2021</b> , 127, 1	0
377	Graphene Quantum Dots from Partially Unzipped Multi-Walled Carbon Nanotubes: Promising Materials for Oxygen Electrodes. <b>2021</b> , 168, 044514	1
376	Effect of Shape on the Entering of Graphene Quantum Dots into a Membrane: A Molecular Dynamics Simulation. <b>2021</b> , 6, 10936-10943	1
375	Functionalized carbon dots for advanced batteries. <b>2021</b> , 37, 8-39	35

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374	A facile decoration of anatase Fe3O4/TiO2 nanocomposite with graphene quantum dots: Synthesis, characterization, and photocatalytic activity. <b>2021</b> ,	10
373	Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. <b>2021</b> , 10,	7
372	Nanocomposite as Visible Sensing Platform for Hg□+. <b>2021</b> , 21, 10595-10602	
371	Emerging theranostic applications of carbon dots and its variants. 20200089	5
370	Carbon dots derived from polysaccharide as an effective "on-off" fluorescence sensor for chromium (VI) detection <b>2022</b> , 12, 104-112	4
369	Graphene quantum dots prepared from dried lemon leaves and microcrystalline mosaic structure. <b>2021</b> , 36, 1365-1376	1
368	N,S-Codoped Carbon Dots with Red Fluorescence and Their Cellular Imaging <b>2021</b> , 4, 4973-4981	5
367	Synthesizing novel NH4CoxNi1-xF3 as electroactive material for supercapacitors using 2-methylimidazole: Study of reaction durations. <b>2021</b> , 494, 229754	6
366	Unraveling the Fluorescence Quenching of Colloidal Graphene Quantum Dots for Selective Metal Ion Detection. <b>2021</b> , 4, 5636-5642	8
365	Review on Colloidal Quantum Dots Luminescent Solar Concentrators. <b>2021</b> , 6, 4948-4967	5
364	Graphene Quantum Dots from Carbonized Coffee Bean Wastes for Biomedical Applications. <b>2021</b> , 11,	7
363	Metal-Bridged Graphene-Protein Supraparticles for Analog and Digital Nitric Oxide Sensing. <b>2021</b> , 33, e2007900	3
362	Electrocatalytic Activity of Cobalt Phthalocyanines Revisited: Effect of the Number of Oxygen Atoms and Conjugation to Carbon Nanomaterials. <b>2021</b> , 12, 499-515	1
361	Carbon Dots-Mediated Fluorescent Scaffolds: Recent Trends in Image-Guided Tissue Engineering Applications. <b>2021</b> , 22,	4
360	Oxidative cyclo-rearrangement of helicenes into chiral nanographenes. <b>2021</b> , 12, 2786	16
359	Promoting potential direct interspecies electron transfer (DIET) and methanogenesis with nitrogen and zinc doped carbon quantum dots. <b>2021</b> , 410, 124886	8
358	An overview of brine management: Emerging desalination technologies, life cycle assessment, and metal recovery methodologies. <b>2021</b> , 288, 112358	23
357	Multifaceted Regulation of Potassium-Ion Channels by Graphene Quantum Dots. <b>2021</b> , 13, 27784-27795	1

356	Carbon dots from agroindustrial residues: a critical comparison of the effect of physicochemical properties on their performance as photocatalyst and emulsion stabilizer. <b>2021</b> , 20, 100445	4
355	Single atomically anchored iron on graphene quantum dots for a highly efficient oxygen evolution reaction. <b>2021</b> , 20, 100693	11
354	Biomass-derived Carbon Quantum Dots 🖪 Review. Part 1: Preparation and Characterization. <b>2021</b> , 8, 265	0
353	Long-wavelength (red to near-infrared) emissive carbon dots: Key factors for synthesis, fluorescence mechanism, and applications in biosensing and cancer theranostics. <b>2021</b> , 32, 3653-3653	4
352	Smart Biosensors for Cancer Diagnosis Based on Graphene Quantum Dots. <b>2021</b> , 13,	7
351	Carbon-dot-based solid-state luminescent materials: Synthesis and applications in white light emitting diodes and optical sensors. <b>2021</b> , 36, 527-545	5
350	Graphene quantum dots-based heterogeneous catalysts. <b>2021</b> , 36, 449-467	2
349	Review of performance improvement strategies for doped graphene quantum dots for fluorescence-based sensing. <b>2021</b> , 276, 116758	9
348	Size Effect of Graphene Quantum Dots on Photoluminescence. <b>2021</b> , 26,	8
347	Enhanced interfacial interactions of carbon fiber/epoxy resin composites by regulating PEG-E51 and graphene oxide complex sizing at the interface. <b>2021</b> , 32, 3458-3473	1
346	Electrospun polyacrylonitrile nanofibers as graphene oxide quantum dot precursors with improved photoluminescent properties. <b>2021</b> , 127, 105729	4
345	Carbon dots inhibit root growth by disrupting auxin biosynthesis and transport in Arabidopsis. <b>2021</b> , 216, 112168	5
344	Understanding of Light Absorption Properties of the N-Doped Graphene Oxide Quantum Dot with TD-DFT. <b>2021</b> , 125, 14979-14990	6
343	Towards the development of antioxidant-wrapped graphene-based fluorescent nanomaterials having theranostic potentials: A combined experimental and theoretical study. <b>2021</b> , 4, 100042	
342	Increased lipid peroxidation by graphene quantum dots induces ferroptosis in macrophages <b>2021</b> , 23, 100334	3
341	Nitrogen-doped carbon quantum dots fabricated from cellulolytic enzyme lignin and its application to the determination of cytochrome c and trypsin. <b>2021</b> , 413, 5239-5249	4
340	Synthesis of fluorescent graphene quantum dots from graphene oxide and their application in fabrication of GQDs@AgNPs nanohybrids and sensing of H2O2. <b>2021</b> , 47, 19063-19072	5
339	Molecularly Imprinted Polymer¶arbon Dot Composites for Biomedical Application. <b>2022</b> , 151-186	

338	Doped-carbon dots: Recent advances in their biosensing, bioimaging and therapy applications. <b>2021</b> , 203, 111743	22
337	Carbon Quantum Dots for Energy Applications: A Review. <b>2021</b> , 4, 6515-6541	25
336	pH-Dependent surface properties of NIIdots obtained by the hydrothermal method with multicolored emissions. <b>2021</b> , 621, 126578	5
335	Preparation and properties of bifunctional Gd2O3/GQD composite nanoparticles*. 2021,	3
334	Green synthesis of carbon quantum dots from purslane leaves for the detection of formaldehyde using quartz crystal microbalance. <b>2021</b> , 179, 159-171	11
333	Tuning photo-response and electronic behavior of graphene quantum dots synthesized via ion irradiation. <b>2021</b> , 613, 412978	3
332	Photodynamic antimicrobial activity of benzimidazole substituted phthalocyanine when conjugated to Nitrogen Doped Graphene Quantum Dots against Staphylococcus aureus. <b>2021</b> , 20, 175-191	8
331	Precise Blood Glucose Sensing by Nitrogen-Doped Graphene Quantum Dots for Tight Control of Diabetes. <b>2021</b> , 2021, 1-14	5
330	Unraveling the surface states related Stokes shift dependent electrocatalytic activity of N-doped carbon quantum dots for photovoltaic applications. <b>2021</b> , 181, 155-168	4
329	Synthesis and characterization of vitamin D-functionalized carbon dots for CRISPR/Cas9 delivery. <b>2021</b> , 16, 1673-1690	2
328	Photoinitiated Polymerization of Hydrogels by Graphene Quantum Dots. <b>2021</b> , 11,	1
327	Highly sensitive Ni2+ sensors based on polyurethane-derived, label-free carbon dots with high adsorption capacity. <b>2021</b> , 6, 7964-7971	O
326	Construction of Enhanced Photostability Anthraquinone-Type Nanovesicles Based on a Novel Two-Step Supramolecular Assembly Strategy and Their Application on Multiband Laser-Responsive Composites. <b>2021</b> , 13, 43458-43472	2
325	Application of graphene quantum dots in the detection of Hg2+ and ClOland analysis of detection mechanism. <b>2021</b> , 117, 108454	2
324	Carbon dots: An innovative luminescent nanomaterial. e108	3
323	Chemical Modification of Nanographenes and Their Functions. <b>2021</b> , 79, 743-754	
322	Polychromatic Carbon Dots Prepared from m-Phenylenediamine and Urea as Multifunctional Fluorescent Probes. <b>2021</b> , 4, 8500-8510	1
321	The development of carbon dots: From the perspective of materials chemistry. <b>2021</b> , 51, 188-188	30

320	Towards Red Emissive Systems Based on Carbon Dots. <b>2021</b> , 11,	2
319	Strategies for Incorporating Graphene Oxides and Quantum Dots into Photoresponsive Azobenzenes for Photonics and Thermal Applications. <b>2021</b> , 11,	5
318	Noble Metal-Free Surface-Enhanced Raman Scattering Enhancement from Bandgap-Controlled Graphene Quantum Dots. <b>2021</b> , 38, 2100128	0
317	Synthesis, Applications, and Prospects of Graphene Quantum Dots: A Comprehensive Review. <b>2021</b> , e2102683	3 18
316	Transparent Hard Coatings with SiON-Encapsulated N-Doped Carbon Dots for Complete UV Blocking and White Light Emission. <b>2021</b> , 3, 3761-3773	2
315	Solvent-controlled synthesis of full-color carbon dots and its application as a fluorescent food-tasting sensor for specific recognition of jujube species. <b>2021</b> , 342, 129963	3
314	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. <b>2021</b> , 2, 031303	9
313	One-pot synthesis of metal-free, yellow-emitting phosphor with organic single crystal as a matrix. <b>2021</b> , 193, 109518	1
312	Facile synthesis of ruhtenium nanoparticles capped by graphene and thiols for high-performance supercapacitors. <b>2021</b> , 391, 138990	1
311	Thioacetamide-derived nitrogen and sulfur co-doped carbon quantum dots for greenLquantum dot solar cells. <b>2021</b> , 105, 111-111	5
310	Doping and Surface Modification of Carbon Quantum Dots for Enhanced Functionalities and Related Applications. <b>2021</b> , 38, 2100170	13
309	Hydrogel Composites with Different Dimensional Nanoparticles for Bone Regeneration. <b>2021</b> , 42, e2100362	3
308	Near-infrared carbon nanodots for effective identification and inactivation of Gram-positive bacteria. 1	2
307	Graphene Quantum Dots Improved "Caterpillar"-like TiO for Highly Efficient Photocatalytic Hydrogen Production. <b>2021</b> , 14,	1
306	Facile Synthesis Strategy from Sludge-Derived Extracellular Polymeric Substances to Nitrogen-Doped Graphene Oxide-Like Material and Quantum Dots. <b>2021</b> , 6, 24940-24948	1
305	Graphene Quantum Dots-Based Nanocomposites Applied in Electrochemical Sensors: A Recent Survey. <b>2021</b> , 2, 490-519	3
304	Waste derived approach towards wealthy fluorescent N-doped graphene quantum dots for cell imaging and HO sensing applications. <b>2022</b> , 266, 120453	7
303	Carbon dots as a new class of nanomedicines: Opportunities and challenges. <b>2021</b> , 442, 214010	46

## (2021-2021)

302	Exploring the Emission Pathways in Nitrogen-Doped Graphene Quantum Dots for Bioimaging. <b>2021</b> , 125, 21044-21054	5
301	Magnesium-nitrogen co-doped carbon dots enhance plant growth through multifunctional regulation in photosynthesis. <b>2021</b> , 422, 130114	11
300	Role of precursor microstructure in the development of graphene quantum dots from biomass. <b>2021</b> , 9, 106154	3
299	Simple and facile carbon dots based electrochemical biosensor for TNF-Hargeting in cancer patient's sample. <b>2021</b> , 1182, 338909	9
298	A green path to extract carbon quantum dots by coconut water: Another fluorescent probe towards Fe3+ ions. <b>2021</b> , 58, 251-258	4
297	Graphene oxide/graphene quantum dots: A platform for probing ds-DNA-dimethoate interaction and dimethoate sensing. <b>2021</b> , 899, 115678	2
296	The applications of graphene oxide quantum dots in the removal of emerging pollutants in water: An overview. <b>2021</b> , 43, 102249	4
295	The importance of surface states in N-doped carbon quantum dots. <b>2021</b> , 183, 1-11	17
294	Preparation, characterization, and corrosion inhibition performance of graphene oxide quantum dots for Q235 steel in 1IM hydrochloric acid solution. <b>2021</b> , 627, 127209	1
293	Sustainable synthesis of bright green fluorescent carbon quantum dots from lignin for highly sensitive detection of Fe3+ ions. <b>2021</b> , 565, 150526	15
292	Novel supramolecular network of graphene quantum dots-vitamin B9-iron (III)-tannic acid complex for removal of chromium (VI) and malachite green. <b>2021</b> , 341, 117312	2
291	Development of novel blue emissive carbon dots for sensitive detection of dual metal ions and their potential applications in bioimaging and chelation therapy. <b>2021</b> , 170, 106706	5
290	Microplasma nanoengineering of emission-tuneable colloidal nitrogen-doped graphene quantum dots as smart environmental-responsive nanosensors and nanothermometers. <b>2021</b> , 185, 501-513	5
289	Tuning photoluminescence of boron nitride quantum dots via surface functionalization by femtosecond laser ablation. <b>2021</b> , 1244, 130922	5
288	Synthesis and properties of carbon quantum dots and their research progress in cancer treatment. <b>2021</b> , 196, 109766	4
287	Solvothermal synthesis of functionalized carbon dots from amino acid as an eco-friendly corrosion inhibitor for copper in sulfuric acid solution. <b>2021</b> , 604, 1-14	14
287 286		0

284	CHAPTER 10:Biotechnology Applications of Nanocarbons in Plant and Algal Systems. <b>2021</b> , 331-355	
283	Synthesis of Graphene Quantum Dots Decorated With Se, Eu and Ag As Photosensitizer and Study of Their Potential to Use in Photodynamic Therapy. <b>2021</b> , 31, 551-557	5
282	Graphene quantum dots induced porous orientation of holey graphene nanosheets for improved electrocatalytic activity. <b>2021</b> , 171, 493-506	9
281	Electrochemiluminescent and photoelectrochemical aptasensors based on quantum dots for mycotoxins and pesticides analysis. <b>2021</b> , 185-208	
280	The selective deprotonation of carbon quantum dots for fluorescence detection of phosphate and visualization of latent fingerprints. <b>2021</b> , 13, 13057-13064	8
279	Oxygen vacancy-rich doped CDs@graphite felt-600 heterostructures for high-performance supercapacitor electrodes. <b>2021</b> , 13, 4995-5005	7
278	Bynthesis of carbon nanomaterials by chemical vapor deposition method using green chemistry principles[]2021, 273-314	2
277	In Vitro Targeting of NL2 Peptide Bounded on Poly L-DOPA Coated Graphene Quantum Dot. <b>2021</b> , 31, 279-288	4
276	Excitation dependence and independence of photoluminescence in carbon dots and graphene quantum dots: insights into the mechanism of emission. <b>2021</b> , 13, 16662-16671	2
275	Medical Nanomaterials. <b>2014</b> , 83-99	1
274	Metal and Carbon Quantum Dot Photocatalysts for Water Purification. 2021, 81-118	2
273	Synthesis, Characterization and Applications of Graphene Quantum Dots. <b>2017</b> , 65-120	2
272	Components of Supercapacitor. <b>2018</b> , 11-39	6
271	Synthesis of kappa fiber modified graphite carbon nitride with outstanding photocatalytic phenol degradation ability. <b>2020</b> , 105, 107817	1
270	Facile approach to synthesize highly fluorescent multicolor emissive carbon dots via surface functionalization for cellular imaging. <b>2018</b> , 513, 505-514	43
269	Hetero-atom-doped carbon dots: Doping strategies, properties and applications. <b>2020</b> , 33, 100879	131
268	Graphene quantum dots wrapped square-plate-like MnO nanocomposite as a fluorescent turn-on sensor for glutathione. <b>2020</b> , 219, 121180	15
267	Carbon Dots in Solar-to-Hydrogen Conversion. <b>2020</b> , 2, 623-637	24

266	Chapter 1:Carbon-based Nanomaterials in Analytical Chemistry. 2018, 1-36	5
265	Near infra-red photoluminescent graphene nanoparticles greatly expand their use in noninvasive biomedical imaging. <b>2013</b> , 49, 5079-81	90
264	Effect of plasma polarity on the synthesis of graphene quantum dots by atmospheric-pressure microplasmas. <b>2020</b> , 31, 485001	5
263	Wideband absorption in ThueMorse quasiperiodic graphene-based hyperbolic metamaterials. <b>2018</b> , 57, 1	7
262	Measurement of the third order optical nonlinearities of graphene quantum dots in water at 355 nm, 532 nm and 1064 nm. <b>2019</b> , 9, 339	6
261	Electrocatalytic hydrogen evolution using graphitic carbon nitride coupled with nanoporous graphene co-doped by S and Se. <b>2015</b> ,	1
260	Carbon Quantum Dots: Synthesis, Characterization and Biomedical Applications. 2018, 15, 219-230	37
259	Direct Comparison of Optical Properties from Graphene Oxide Quantum Dots and Graphene Oxide. <b>2015</b> , 24, 111-116	3
258	Synthesis, Properties and Applications of Luminescent Carbon Dots. <b>2021</b> , 421-460	
257	Preparation, Marriage Chemistry and Applications of Graphene Quantum Dots-Nanocellulose Composite: A Brief Review. <b>2021</b> , 26,	2
256	Recent progress on graphene quantum dots-based fluorescence sensors for food safety and quality assessment applications. <b>2021</b> , 20, 5765-5801	4
255	Analytical application of H2O2-induced chiroptical graphitic carbon dots.	O
254	MnO2 Nanowires Anchored with Graphene Quantum Dots for Stable Aqueous Zinc-Ion Batteries. <b>2021</b> , 4, 10940-10947	2
253	Green synthesis of carbon-based nanomaterials and their applications in various sectors: a topical review. 1	3
252	Transparent graphene quantum dot/amorphous TiO2 nanocomposite sol as homogeneous-like photocatalyst. <b>2021</b> , 23, 1	2
251	Structure-controllable growth of nitrogenated graphene quantum dots via solvent catalysis for selective C-N bond activation. <b>2021</b> , 12, 5879	9
250	Facile Synthesis of N-Doped Graphene Quantum Dots as Novel Transfection Agents for mRNA and pDNA. <b>2021</b> , 11,	4
249	Nanocarbons in quantum regime: An emerging sustainable catalytic platform for organic synthesis. 1-55	4

248	The Room Temperature Highly Sensitive Ammonia Gas Sensor Based on Polyaniline and Nitrogen-Doped Graphene Quantum Dot-Coated Hollow Indium Oxide Nanofiber Composite. <b>2021</b> , 13,	2
247	One-Pot Synthesis of Bright Blue Luminescent N-Doped GQDs: Optical Properties and Cell Imaging. <b>2021</b> , 11,	3
246	Unveiling the Atomic and Electronic Structure of Stacked-Cup Carbon Nanofibers. 2021, 16, 153	O
245	Facile synthesis of carbon quantum dot -carbon nanotube composites on an eggshell-derived catalyst by one-step chemical vapor deposition. <b>2021</b> , 120, 108657	2
244	Quantum Dot-Electrochemical and Photoelectrochemical Biosensing. 2013, 71-91	
243	Graphene Nanostructures and Quantum Dots. <b>2014</b> , 29-38	
242	References. 257-276	
241	Studies of quasi one-dimensional nanostructures at high pressures. <b>2017</b> , 66, 039101	1
240	Characterization of Nanocarbons: From Graphene to Graphene Nanoribbons (GNRs) and Quantum Dots (GQDs). <b>2017</b> , 315-338	
239	Carbon Nanomaterials Derived from Graphene and Graphene Oxide Nanosheets. <b>2017</b> , 177-243	
238	Quantum-chemical Studies of Several Lanthanide Compounds with Products of Starch Thermal Decomposition. <b>2018</b> , 18, 134-139	
237	Relaxation of the Energy of Optically Excited States in the Carbon Quantum Dots. 2018, 20, 209	
236	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption.	1
235	Structure <b>P</b> roperty Co-relation of Graphene/Graphene Derivative Based TPE. <b>2020</b> , 127-181	
234	Hydrothermal Synthesis of Carbon Dots from Luochuan Red Fuji Apple Peel and Application for the Detection of Fe3+ Ions.	О
233	Carbon Nanodots for Cell Imaging. <b>2020</b> , 49-75	O
232	The synthetic strategies, photoluminescence mechanisms and promising applications of carbon dots: Current state and future perspective. <b>2022</b> , 186, 91-127	26
231	Surface-engineered N-doped carbon nanotubes with B-doped graphene quantum dots: Strategies to develop highly-efficient noble metal-free electrocatalyst for online-monitoring dissolved oxygen biosensor. <b>2022</b> , 186, 406-415	6

230	Universal dry synthesis and patterning of high-quality and -purity graphene quantum dots by ion-beam assisted chemical vapor deposition. <b>2022</b> , 186, 28-35	2
229	Controllable fabrication of novel graphene quantum dots/fluorinated boron nitride ultralight composites for broadband and high-performance microwave absorption. <b>2022</b> , 186, 391-405	1
228	Carbon quantum dot fluorescent probes for food safety detection: Progress, opportunities and challenges. <b>2022</b> , 133, 108591	4
227	CHAPTER 7:Synthesis and Applications of Graphene Quantum Dots. <b>2020</b> , 131-173	
226	Research Progress on Purification Methods of Carbon Dots. <b>2020</b> , 10, 36-42	
225	Fluorescent Carbon Nanostructures. <b>2020</b> , 357-399	
224	Revealing Graphitic Nitrogen Participating in p-lConjugated Domain as Emissive Center of Red Carbon Dots and Applied to Red Room-Temperature Phosphorescence.	4
223	Highly Sensitive and Selective Detection of Glutathione Using Ultrasonic Aided Synthesis of Novel Graphene Quantum Dots Embedded Over Amine-Funtionalized Silica Nanoparticles.	
222	Application of high-efficiency green fluorescent carbon dots prepared by acid catalysis in multicolour LEDs <b>2021</b> , 11, 38033-38039	О
221	Graphene quantum dots, graphene nanoplatelets, and graphene nanoribbons with polymers. <b>2022</b> , 91-116	
221	Graphene quantum dots, graphene nanoplatelets, and graphene nanoribbons with polymers. <b>2022</b> , 91-116  Graphene quantum dots enable dendrite-free zinc ion battery. <b>2022</b> , 92, 106752	16
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220	Graphene quantum dots enable dendrite-free zinc ion battery. <b>2022</b> , 92, 106752  Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene	
220	Graphene quantum dots enable dendrite-free zinc ion battery. <b>2022</b> , 92, 106752  Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene quantum dots. <b>2022</b> , 578, 151919  Quantum dots based sensitive nanosensors for detection of antibiotics in natural products: A	1
220 219 218	Graphene quantum dots enable dendrite-free zinc ion battery. 2022, 92, 106752  Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene quantum dots. 2022, 578, 151919  Quantum dots based sensitive nanosensors for detection of antibiotics in natural products: A review. 2021, 151997  Pressure-Controlled Encapsulation of Graphene Quantum Dots into Liposomes by the	6
220 219 218 217	Graphene quantum dots enable dendrite-free zinc ion battery. 2022, 92, 106752  Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene quantum dots. 2022, 578, 151919  Quantum dots based sensitive nanosensors for detection of antibiotics in natural products: A review. 2021, 151997  Pressure-Controlled Encapsulation of Graphene Quantum Dots into Liposomes by the Reverse-Phase Evaporation Method. 2021, 37, 14096-14104	6
220 219 218 217 216	Graphene quantum dots enable dendrite-free zinc ion battery. 2022, 92, 106752  Facile oxidation reaction to produce monolayered highly crystalline nitrogen-doped graphene quantum dots. 2022, 578, 151919  Quantum dots based sensitive nanosensors for detection of antibiotics in natural products: A review. 2021, 151997  Pressure-Controlled Encapsulation of Graphene Quantum Dots into Liposomes by the Reverse-Phase Evaporation Method. 2021, 37, 14096-14104  Effect of polymer@raphene-quantum-dot solution on enhanced oil recovery performance. 2021, 118092  Applications of Pristine and Functionalized Carbon Nanotubes, Graphene, and Graphene	1 6 2 1

212	Carbon dots with polarity-tunable characteristics for the selective detection of sodium copper chlorophyllin and copper ions <b>2022</b> , 1191, 339311	3
211	Carbonaceous Nanomaterial-TiO2 Heterojunctions for Visible-Light-Driven Photocatalytic Degradation of Aqueous Organic Pollutants. <b>2021</b> , 118460	4
210	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. 2021,	1
209	Luminescent Carbon Dots for Environmental Photocatalytic. <b>2022</b> , 201-228	
208	Lignin-based fluorescence-switchable graphene quantum dots for Fe and ascorbic acid detection. <b>2021</b> , 194, 254-263	1
207	Carbon fibre surface chemistry and its role in fibre-to-matrix adhesion. <b>2021</b> , 9, 26528-26572	4
206	A study on interfacial behaviors of epoxy/graphene oxide derived from pitch-based graphite fibers. <b>2021</b> , 10, 1827-1837	2
205	Ultrasensitive Detection of Fe Ions Using Functionalized Graphene Quantum Dots Fabricated by a One-Step Pulsed Laser Ablation Process <b>2022</b> , 7, 2074-2081	7
204	Nonpolar Graphene Quantum Dot-Based Hydrophobic Coating from Microwave-Assisted Treatment of Styrofoam Waste.	0
203	Carbon dots: a novel platform for biomedical applications.	7
202	Harnessing Versatile Dynamic Carbon Precursors for Multi-Color Emissive Carbon Dots.	4
201	N-doped graphene quantum dots from graphene oxide and dendrimer and application in photothermal therapy: An experimental and theoretical study. <b>2022</b> , 636, 128066	1
200	Dual interfacial modification to improve the performance of CsPbBr3 perovskite solar cells. <b>2022</b> , 141, 106450	О
199	The investigation of structural alteration of raw materials used to attain graphene quantum dots in different prolysis conditions. <b>2022</b> , 29, 101679	1
198	Usage of Graphene in Power Systems. A Survey. <b>2020</b> ,	1
197	Solid-state nitrogen-doped carbon nanoparticles with tunable emission prepared by a microwave-assisted method <b>2021</b> , 11, 39917-39923	1
196	Direct evidence for highly developed graphene in PAN-based carbon fibers. <b>2021</b> , 5, 100136-100136	О
195	Carbon Dots: Synthesis, Properties and Applications <b>2021</b> , 11,	17

194	Recent Progress and Future Perspectives of Carbon Dots in the Detection, Degradation, and Enhancement of Drugs. 2100264	3
193	Synthesis, Characterization and Activation energy of Nano-(GO)x/(Cu,Tl)-1234 Superconducting Composites. <b>2022</b> , 206, 210-231	
192	Lasers in Materials Processing and Synthesis. 2022, 791-831	
191	Preparation and structure tuning of graphene quantum dots for optical applications in chemosensing, biosensing, and bioimaging. <b>2022</b> , 41-77	
190	Preparation of carbon dots and their sensing applications. <b>2022</b> , 9-40	
189	Recent Advances in Hole-Transporting Layers for Organic Solar Cells <b>2022</b> , 12,	4
188	Hydrothermal Unzipping of Multiwalled Carbon Nanotubes and Cutting of Graphene by Potassium Superoxide <b>2022</b> , 12,	О
187	Overcoming Acidic HO/Fe(II/III) Redox-Induced Low HO Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis <b>2022</b> ,	7
186	Edge-Rich Multidimensional Frame Carbon as High-Performance Electrode Material for Vanadium Redox Flow Batteries. 2103186	3
185	Toxic effects of carbon quantum dots on the gutIlver axis and gut microbiota in the common carp Cyprinus carpio. <b>2022</b> , 9, 173-188	1
184	Carbon-Dot-Enhanced Electrocatalytic Hydrogen Evolution.	9
183	Fluorescent carbon nano-materials from coal-based precursors: unveiling structure <b>f</b> unction relationship between coal and nano-materials. 1	1
182	A high-performance PDMS-based triboelectric nanogenerator fabricated using surface-modified carbon nanotubes via pulsed laser ablation. <b>2022</b> , 10, 1299-1308	8
181	Highly sensitive and selective detection of glutathione using ultrasonic aided synthesis of graphene quantum dots embedded over amine-functionalized silica nanoparticles <b>2021</b> , 82, 105868	5
180	Correlations between structure and photoluminescence properties in N-doped carbon nanoparticles. <b>2022</b> , 7, 100408	
179	A review on graphene quantum dots, an emerging luminescent carbon nanolights: Healthcare and Environmental applications. <b>2022</b> , 278, 115633	1
178	Synthesis of corn straw-based graphene quantum dots (GQDs) and their application in PO43-detection. <b>2022</b> , 10, 107150	4
177	Graphene quantum dots: A contemporary perspective on scope, opportunities, and sustainability. <b>2022</b> , 157, 111993	6

176	Asphaltene induced changes in rheological properties: A review. <b>2022</b> , 316, 123372	3
175	Carbon and carbon paste electrodes. <b>2022</b> , 79-114	1
174	Graphene Quantum Dot Inlaid Carbon Nanofibers: Revealing the Edge Activity for Ultrahigh Rate Pseudocapacitive Energy Storage. <b>2022</b> , 47, 158-158	1
173	Bioactive Graphene Quantum Dots Based Polymer Composite for Biomedical Applications <b>2022</b> , 14,	9
172	The Parallel Fluorescence Determination of Iron(III), Terbium(III) and Europium(III) Ions Using The Coal-derived Carbon Dot. <b>2022</b> , 107255	1
171	Ultrasonicated graphene quantum dots dispersoid zinc ammonium phosphate hybrid electrode for supercapacitor applications. <b>2022</b> , 33, 7079	1
170	Comparative analysis of characterization techniques of GQDs-based photovoltaic applications: A review. <b>2022</b> , 255, 168709	1
169	Hetero Atom Doped Carbon Nanomaterials for Biological Applications. <b>2022</b> , 35-59	
168	Fluorescent quantum dots from two-dimensional nanomaterials for in vitro and in vivo bioimaging. <b>2022</b> , 53, 420-424	
167	Defective Carbon Nanostructures for Biomedical Application. <b>2022</b> , 1-34	
166	Development of Nanomaterials Based on Graphene for Biomedical Purposes. 2022, 161-174	
165	Amino Benzene Dicarboxylic Acid-Derived Luminescent Nitrogen-Doped Cqds/Anti-Tnt Antibodies Conjugate for Detection of Nitroaromatic Contaminant in Water: A Comparative Analysis of Chemo-Bio-Sensing Affinity.	
164	Graphene: A Promising Theranostic Agent <b>2022</b> , 1351, 149-176	О
163	Preparation and Characterization of Photoluminescent Graphene Quantum Dots from Watermelon Rind Waste for the Detection of Ferric Ions and Cellular Bio-Imaging Applications <b>2022</b> , 12,	2
162	Preparation, Properties, and Application of Lignocellulosic-Based Fluorescent Carbon Dots <b>2022</b> , e202102	24860
161	Synthesis and characterization of high quantum yield graphene quantum dots via pyrolysis of glutamic acid and aspartic acid. <b>2022</b> , 24, 1	
160	Luminescence turn-off detection of metal ions and explosives using graphene quantum dots. <b>2022</b> , 12, 168	0
159	The applications of two-dimensional materials and the derivative quantum dots in photodynamic therapy. <b>2022</b> , 10, 021104	

158	N-Doped Fluorescent Carbon Nanosheets as a Label-Free Platform for Sensing Bisphenol Derivatives.	1
157	A new methacrylate polymer functionalized with fluoroarylketone prepared by hydrothermal method and its nanocomposites with SiO2: thermal, dielectric, and biocidal properties. 1	O
156	Structural defects in graphene quantum dots: A review.	1
155	Enhancing the Photodegradation Property of NO through the Construction of a SrTiO3/GQDs/NH2-UiO-66 Heterojunction. <b>2022</b> , 61, 3550-3560	1
154	Antimicrobial polymeric composites in consumer goods and healthcare sector: A healthier way to prevent infection.	O
153	Overview of antimicrobial polyurethane-based nanocomposite materials and associated signalling pathways. <b>2022</b> , 167, 111087	1
152	Recent advances in utility of artificial intelligence towards multiscale colloidal based materials design. <b>2022</b> , 47, 100595	3
151	Chiral carbon dots: synthesis, optical properties, and emerging applications <b>2022</b> , 11, 75	11
150	Synthesis of coated silver-containing nanocomposites of a new methacrylate polymer having pendant fluoroarylketone by hydrothermal technique and investigation of thermal, optical, dielectric and biological properties <b>2022</b> , 1-18	O
149	Mulberry Leaves Derived Red Emissive Carbon Dots for Feeding Silkworms to Produce Brightly Fluorescent Silk <b>2022</b> , e2200152	9
148	Efficient Conversion of Elemental Sulfur to Robust Ultrabright Fluorescent Sulfur Quantum Dots Using Sulfur-Ethylenediamine Precursor.	5
147	Patterning of graphene using wet etching with hypochlorite and UV light <b>2022</b> , 12, 4541	O
146	Current scenario and recent advancement of doped carbon dots: a short review scientocracy update (2013\( \textbf{0}\)022). 1	1
145	Facile one pot green synthesis of NH2 surface functionalized graphene-polymer nanocomposite: Subsequent utilization as stabilizer in pickering emulsions. <b>2022</b> , 641, 128594	1
144	Novel strategy of highly efficient solar-driven water evaporation using MWCNTs-ZrO2-Ni@CQDs composites as photothermal materials. <b>2022</b> , 642, 128653	2
143	Encapsulation of ultrasmall nanophosphors into liposomes by thin-film hydration. 1	O
142	Interfacial engineering of polydimethylsiloxane based dielectric elastomers with excellent electromechanical properties via incorporating polyphenol encapsulated multiwalled carbon nanotube. <b>2022</b> , 139, 52084	O
141	Nanographene - A Scaffold of Two-Dimensional Materials <b>2021</b> , e202100257	O

140	Fluorescence Microscopy-An Outline of Hardware, Biological Handling, and Fluorophore Considerations <b>2021</b> , 11,	8
139	Nitrogen-doped graphene quantum dots synthesized by femtosecond laser ablation in liquid from laser induced graphene. <b>2021</b> ,	2
138	Feasibility study of synthesizing graphene quantum dots from the spent resin in a nuclear power plant to reduce disposal cost.	
137	???????????. 2022,	Ο
136	Preparation of Graphene Quantum Dots by Visible-Fenton Reaction and Ultrasensitive Label-Free Immunosensor for Detecting Lipovitellin of Paralichthys Olivaceus <b>2022</b> , 12,	2
135	Properties and applications of quantum dots derived from two-dimensional materials. 2022, 7,	
134	Nitrogen-Doped Graphdiyne Quantum-dots as an Optical-Electrochemical Sensor for Sensitive Detection of Dopamine. <b>2022</b> , 107521	3
133	CHAPTER 8. Carbon Nanomaterials for Imaging. <b>2022</b> , 242-277	
132	The Role of N and S Doping on Photoluminescent Characteristics of Carbon Dots from Palm Bunches for Fluorimetric Sensing of Fe Ion <b>2022</b> , 23,	3
131	An Innovative Microwave-Assisted One-Step Green Synthetic Approach of Biowaste Derived Fluorescent Carbon-Dot Invisible Ink for Currency Anti-Counterfeiting Applications.	
130	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. <b>2022</b> , 12, 609	1
129	Nanobiophotonics. Effect of carbon nanoparticles on the optical and spectroscopic properties of Cichorium intybus leaves. <b>2022</b> , 10, 100121	
128	DFT Study of 6-amino-3-(1-hydroxyethyl) pyridine-2,4-diol (AHP) Adsorption on Coronene. <b>2022</b> , 119436	0
127	Gradient heating-induced bi-phase synthesis of carbon quantum dots (CQDs) on graphene-coated carbon cloth for efficient photoelectrocatalysis. <b>2022</b> , 196, 649-662	1
126	Theoretical investigation on the mechanism of phospholipid extraction from the cell membrane using functionalized graphene quantum dots.	0
125	Improved hepatoblast differentiation of human pluripotent stem cells by coffee bean derived graphene quantum dots. <b>2022</b> , 9, 035012	O
124	Nitrogen and Sulfur Co-Doped Graphene Quantum Dots Anchored TiO2 Nanocomposites for Enhanced Photocatalytic Activity. <b>2022</b> , 12, 548	0
123	Enhancing the Alkaline Hydrogen Evolution Reaction of Graphene Quantum Dots by Ethylenediamine Functionalization.	1

122	High-performance Mg 2+ Sensors Based on Natural Rubber-derived, Label-free Carbon Dots. <b>2022</b> , 7,	
121	Integration of Nanographenes and Organic Chemistry Loward Nanographene-based Two-Dimensional Materials.	
120	Amino benzene dicarboxylic acid-derived luminescent nitrogen-doped Carbon- quantum Dots/anti-TNT antibodies conjugate for detection of nitroaromatic contaminant in water: A comparative analysis of chemo-Bio-sensing affinity. <b>2022</b> , 181, 107607	2
119	Controllable fabrication of carbon dots based corrosion inhibitors with fluorescence properties. <b>2022</b> , 505-526	O
118	Carbonaceous Nanocomposites Derived from Waste Material for Wastewater Treatment. 43-73	
117	Boron-doped Carbon Dots with Surface Oxygen Functional Groups as a Highly Sensitive and Label-free Photoluminescence Probe for the Enhanced Detection of Mg 2+ Ions. <b>2022</b> , 7,	
116	Graphene quantum dots: synthesis, properties, and applications to the development of optical and electrochemical sensors for chemical sensing. <b>2022</b> , 189,	Ο
115	Is precarbonization necessary for effective laser graphitization?. 2022,	Ο
114	Preparation of PHEMA/TiO2 nanocomposites by combination of in-situ polymerization/hydrothermal method and determination of their thermal, swelling, biological and dielectric properties. <b>2022</b> , 29,	Ο
113	Green synthesis of mango ginger (Curcuma amada) derived fluorescent carbon dots potent label-free probe for hexavalent chromium sensing in water. 1-16	Ο
112	Recent Advances in Inflammatory Diagnosis with Graphene Quantum Dots Enhanced SERS Detection. <b>2022</b> , 12, 461	3
111	Photoluminescence and Fluorescence Quenching of Graphene Oxide: A Review. <b>2022</b> , 12, 2444	2
110	Shock Processing of Amorphous Carbon Nanodust. <b>2022</b> ,	
109	Organic quantum dots: An ultrasmall nanoplatform for cancer theranostics. 2022, 348, 798-824	O
108	Graphene oxide quantum dot-chitosan nanotheranostic platform as a pH-responsive carrier for improving curcumin uptake internalization: In vitro & lin silico study. <b>2022</b> , 139, 213017	1
107	Carbon nanodots as sensitive and selective nanomaterials in pharmaceutical analysis.	2
106	Coupling of Hydrophobic Graphene Quantum Dots with Photochromic Molecule for Fabrication of Transparent Photo-Responsive Polymeric Films Manifesting Fret Functioning.	
105	Halogen-Doped Carbon Dots: Synthesis, Application, and Prospects. <b>2022</b> , 27, 4620	2

104	Biosourced quinones for high-performance environmentally benign electrochemical capacitors via interface engineering. <b>2022</b> , 5,	0
103	Synthesis of novel methacrylate-based nanocomposites containing ZnO via the hydrothermal method and determination of thermal, optical, and biocidal properties.	O
102	Graphene Quantum Dots-Modified Resorcinol-Formaldehyde Resin for Efficient Hydrogen Peroxide Production. 2200427	0
101	Green Synthesis of Multicolor Emissive Nitrogen-Doped Carbon Dots for Bioimaging of Human Cancer Cells.	1
100	A review on carbon quantum dots: Synthesis, photoluminescence mechanisms and applications.	1
99	The fabrication of excitation-dependent fluorescence boron/nitrogen co-doped carbon quantum dots and their employment in bioimaging. <b>2022</b> , 562, 111678	1
98	Design of zero-dimensional graphene quantum dots based nanostructures for the detection of organophosphorus pesticides in food and water: A review. <b>2022</b> , 144, 109883	O
97	Printed graphene-based electrochemical sensor with integrated paper microfluidics for rapid lidocaine detection in blood. <b>2022</b> , 1229, 340332	2
96	Ball-milled graphene quantum dots for enhanced anti-cancer drug delivery. <b>2022</b> , 8, 100072	2
95	Acid treatment to tune the optical properties of carbon quantum dots. <b>2022</b> , 605, 154690	O
94	Photodegradation of oxolinic acid in aquaculture effluents under solar irradiation: is it possible to enhance efficiency by the use of TiO2/carbon quantum dots composites?. <b>2022</b> , 308, 136522	0
93	Ultrafast charge-transfer at interfaces between 2D graphitic carbon nitride thin film and carbon fiber towards enhanced photocatalytic hydrogen evolution. <b>2022</b> , 606, 154938	O
92	Physical properties of quantum dots. <b>2022</b> , 687-709	0
91	g-C3N5-dots as fluorescence probes prepared by an alkali-assisted hydrothermal method for cell imaging. <b>2022</b> , 12, 26476-26484	1
90	Analysis and characterization of quantum dots. <b>2022</b> , 709-726	O
89	Synthesis and properties of multi-functionalized graphene quantum dots with tunable photoluminescence and hydrophobicity from asphaltene and its oxidized and reduced derivatives. <b>2022</b> , 4, 4080-4093	1
88	Application of coal-based carbon dots for photocatalysis and energy storage: a minireview. <b>2022</b> , 46, 17102-17113	O
87	Ultrafast Insights into Full-Color Light-Emitting C-Dots.	2

86	Synthesis of Graphene Quantum Dots by a Simple Hydrothermal Route Using Graphite Recycled from Spent Li-Ion Batteries. <b>2022</b> , 8, 48	0
85	Visible-light-driven photocatalysis with Z-scheme Ag3PO4@N-GQDs@g-C3N4 nano/hetero-junctions. <b>2022</b> , 128,	1
84	Synthesis, optical, dielectric, and magneto-dielectric properties of graphene quantum dots (GQDs).	О
83	Nanocomposites of Carbon Quantum Dots and Graphene Quantum Dots: Environmental Applications as Sensors. <b>2022</b> , 10, 367	1
82	Hydrothermal Synthesis of ZnO-Doped Poly-2-(4-Fluorophenyl)-2-Oxoethyl-2-Methylprop-2-Enoate Nanocomposites for Electronic Devices. 1-13	О
81	Edge carboxylation-induced charge separation dynamics of graphene quantum dot/cellulose nanocomposites. <b>2022</b> , 120190	O
80	Silver-modified nitrogen-doped graphene quantum dots as a sensor for formaldehyde in milk using headspace micro-extraction on a single-drop of aqueous nanoparticles dispersion. <b>2022</b> , 340479	О
79	Defect passivation and electrical conductivity enhancement in perovskite solar cells using functionalized graphene quantum dots.	О
78	S, N Co-doped Graphene Quantum Dots for Novel Quantum Dots Solar Cell.	1
77	Sensitive, Selective and Reliable Detection of Fe3+ in Lake Water via Carbon Dots-Based Fluorescence Assay. <b>2022</b> , 27, 6749	3
76	Eco-Friendly Sustainable Synthesis of Graphene Quantum Dots from Biowaste as a Highly Selective Sensor. <b>2022</b> , 12, 3696	О
75	Improved Forward Osmosis Performance of Thin Film Composite Membranes with Graphene Quantum Dots Derived from Eucalyptus Tree Leaves. <b>2022</b> , 12, 3519	O
74	Synthesis and characterization of graphene quantum dot/SiNP/carbon nanomaterial composites.	O
73	Recent Progress of Carbon Dots for Air Pollutants Detection and Photocatalytic Removal: Synthesis, Modifications, and Applications. 2200744	O
72	Graphene and Its Derivatives: Synthesis and Application in the Electrochemical Detection of Analytes in Sweat. <b>2022</b> , 12, 910	5
71	Graphene Quantum Dots: Novel Properties and Their Applications for Energy Storage Devices. <b>2022</b> , 12, 3814	2
70	Structural transition of gold octahedrons to nanoprisms induced by nitrogen-doped carbon quantum dots. <b>2022</b> , 51, 100675	О
69	Antibacterial applications of elemental nanomaterials. <b>2022</b> , 26, 101043	O

68	Current perspectives and trend of nanomedicine in cancer: A review and bibliometric analysis. <b>2022</b> , 352, 211-241	2
67	Employing functionalized graphene quantum dots to combat coronavirus and enterovirus. <b>2023</b> , 630, 1-10	О
66	Mitochondria-targeted pentacyclic triterpenoid carbon dots for selective cancer cell destruction via inducing autophagy, apoptosis, as well as ferroptosis. <b>2023</b> , 130, 106259	1
65	Metal-organic framework-induced edge-riched growth of layered Bi2Se3 towards ultrafast Na-ion storage. <b>2023</b> , 555, 232387	1
64	Microwave-assisted green synthesis of carbon dots derived from wild lemon (Citrus pennivesiculata) leaves as a fluorescent probe for tetracycline sensing in water. <b>2023</b> , 286, 122024	1
63	Graphene Incorporated Electrospun Nanofiber for Electrochemical Sensing and Biomedical Applications: A Critical Review. <b>2022</b> , 22, 8661	4
62	Carbon dot@MXene nanozymes with triple enzyme-Mimic activities for mild NIR-II photothermal-Amplified nanocatalytic therapy. 2202154	0
61	Review on Fluorescent Carbon/Graphene Quantum Dots: Promising Material for Energy Storage and Next-Generation Light-Emitting Diodes. <b>2022</b> , 15, 7888	2
60	Plasma-based synthesis of graphene and applications: a focused review. 2022, 6,	1
59	Coupling of Hydrophobic Graphene Quantum Dots with Photochromic Molecule for Fabrication of Transparent Photo-Responsive Polymeric Films Manifesting FRET Functioning. <b>2022</b> , 114420	О
58	Facile production of graphene quantum dots using a molecular adhesive membrane filter.	0
57	Display Based on Carbon-Enhanced Materials. <b>2023</b> , 209-242	О
56	Vacancy-Mediated Anomalous Emission Characteristics of Size-Confined Semiconducting CoTe2.	0
55	Emerging carbon-based quantum dots for sustainable photocatalysis.	О
54	Synthesis, Characterization and Applications of Plain and Non-Metal Doped, Biomass-Derived Carbon Quantum Dots: A Short Review. <b>2022</b> , 34, 3048-3058	0
53	Fluorometric assay of hydroquinone rather than catechol and resorcinol based on carbonized polymer dots.	O
52	Facile and scalable synthesis of un-doped, doped and co-doped graphene quantum dots: a comparative study on their impact for environmental applications. <b>2022</b> , 13, 701-719	0
51	Controllable synthesis of oxygenated carbon supported palladium nanodendrites for highly efficient nitroaromatics reduction. <b>2023</b> , 658, 130677	O

50	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. 2023, 145, 213234	2
49	The preparation, optical properties and applications of carbon dots derived from phenylenediamine. <b>2023</b> , 185, 108299	O
48	Graphene Quantum Dot-Added Thin-Film Composite Membrane with Advanced Nanofibrous Support for Forward Osmosis. <b>2022</b> , 12, 4154	1
47	Graphene Quantum Dots: A Pharmaceutical Review. <b>2022</b> , 341-348	O
46	Graphene Quantum Dot-Enabled Nanocomposites as Luminescence- and Surface-Enhanced Raman Scattering Biosensors. <b>2022</b> , 10, 498	О
45	Detection of Cobalamin and In Vitro Cell Imaging Based on Nitrogen-Doped Yellow Fluorescent Carbon Dots with Nano Architectonics. <b>2022</b> , 15, 9057	O
44	Nanotechnology-based electrochemical biosensors for monitoring breast cancer biomarkers.	O
43	Graphene quantum dots induce cascadic apoptosis via interaction with proteins associated with anti-oxidation after endocytosis by Trypanosoma brucei. 13,	O
42	Solar-light-induced green conversion of amines into imines by lemon derived heteroatoms-doped GQDs as a green photocatalyst. <b>2022</b> , 1-10	O
41	Amphiphilic Graphene Quantum Dots: Metal-Free Photocatalyst for Hydrogen Evolution via Encapsulation of Organic Thermally Activated Delayed Fluorescence Photosensitizers.	O
40	Effect of Operating Parameters on the Properties of Carbon Dots from Spent Coffee Grounds. <b>2023</b> , 56-64	О
39	Synthesis of reduced graphene oxide quantum dots from graphene oxide via hydrothermal process and theirs structural, luminescence and magnetic properties. <b>2023</b> , 104667	O
38	Graphene quantum dots harvest anti-trypanosomatid efficacy by disrupting antioxidant networks centered on trypanothione reductase.	0
37	Green Carbon Dots: Synthesis, Characterization, Properties and Biomedical Applications. <b>2023</b> , 14, 27	2
36	Microwave-Assisted Synthesis of Luminescent Carbonaceous Nanoparticles as Silkworm Feed for Fabricating Fluorescent Silkworm Silk. <b>2023</b> , 13, 31	О
35	Complete Degradation of Glassy Carbon Microspheres into Carbon Nanostructures: Implications for Sensing. <b>2023</b> , 6, 792-803	O
34	Inhibition and Disassembly of Tau Aggregates by Engineered Graphene Quantum Dots.	О
33	Sustainable Preparation of Graphene Quantum Dots for Metal Ion Sensing Application. <b>2023</b> , 13, 148	O

32	Preparation, characterization, and applications of graphene-based quantum dots (GQDs). 2023, 21-69	O
31	Emerging Trends of Carbon-Based Quantum Dots: Nanoarchitectonics and Applications. 2207181	O
30	A comprehensive model of nitrogen-free ordered carbon quantum dots. 2023, 18,	O
29	Eco-Friendly and Sustainable Pathways to Photoluminescent Carbon Quantum Dots (CQDs). <b>2023</b> , 13, 554	O
28	Graphene quantum dots for clean energy solutions. <b>2023</b> , 183-209	O
27	Graphene quantum dots and their role in environmental sustainability. <b>2023</b> , 227-249	O
26	Graphene-based organic-inorganic hybrid quantum dots for organic pollutants treatment. <b>2023</b> , 133-155	О
25	Tunable nonradiative recombination dynamics and charge injection of graphene quantum dots for energy conversion applications by controllable functionalization. <b>2023</b> , 98, 045009	O
24	An experimental and theoretical correlation to account for the effect of graphene quantum dots on the ionic conductivity of poly(ethylene oxide) polymer electrolytes.	О
23	Synthesis of Graphene Quantum Dot Magnesium Hydroxide Nanocomposites and Investigation of Their Antioxidant and Antimicrobial Activities. <b>2023</b> , 80,	O
22	A review of enhanced electrocatalytic composites hydrogen/oxygen evolution based on quantum dot. <b>2023</b> , 121, 27-39	0
21	Microwave synthesis of boron- and nitrogen-codoped graphene quantum dots and their detection to pesticides and metal ions. <b>2023</b> , 318, 137926	O
20	Tunable synthesis of carbon quantum dots from the biomass of spent tea leaves as supercapacitor electrode. <b>2023</b> , 34, 105479	О
19	Top-Down Fabrication of Luminescent Graphene Quantum Dots Using Self-Assembled Au Nanoparticles. <b>2023</b> , 8, 5885-5892	O
18	Continuous wave laser-induced nonlinear optical properties of nanofluids based on graphene quantum dot. <b>2023</b> , 34,	O
17	Carbon Dots Based Photoinduced Reactions: Advances and Perspective. 2207621	O
16	Visible light-assisted photocatalytic degradation of organic contaminants using nitrogen-doped graphene quantum dots@MnCo2O4 nanocomposite. <b>2023</b> , 34,	O
15	Revelation of fluorophore impurities among biocompatible blue fluorescent carbon nanodots derived from Hemigraphis alternata plant and bioimaging.	O

## CITATION REPORT

14	Graphene quantum dots (GQDs) decorated Co-Zn ferrite: Structural, morphological, dielectric, and magnetic properties. <b>2023</b> , 570, 170548	О
13	Fluorescent detection of emerging virus based on nanoparticles: From synthesis to application. <b>2023</b> , 161, 116999	О
12	Graphene quantum dots for heavy metal detection and removal. 2023, 157-181	O
11	Graphene quantum dots for optical application. <b>2023</b> , 211-225	O
10	Recent Advances of Photoactive Near-Infrared Carbon Dots in Cancer Photodynamic Therapy. <b>2023</b> , 15, 760	О
9	An insight into the role of carbon dots in the agriculture system: a review. <b>2023</b> , 10, 959-995	Ο
8	Photoluminescent Carbon Dots: A New Generation Nanocarbon Material. 2023, 231-256	О
7	Biomedical Application of Porous Carbon and Its Future in Precision Medical Devices. <b>2023</b> , 449-491	О
6	Preparation and tribological behavior of a self-assemble copper base carbon quantum dot films. <b>2023</b> , 524-525, 204673	О
5	Surface decorated quantum dots: Synthesis, properties and role in herbal therapy. 11,	O
4	Analysis of Carbon Footprints and Surface Quality in Green Cutting Environments for the Milling of AZ31 Magnesium Alloy. <b>2023</b> , 15, 6301	О
3	Recent developments of Red/NIR carbon dots in biosensing, bioimaging, and tumor theranostics. <b>2023</b> , 465, 143010	O
2	Highly selective detection of epinephrine by a Eurn-offIfluorescent sensor based on N-doped carbon quantum dots. <b>2023</b> , 122760	О
1	Carbon dots: Types, preparation, and their boosted antibacterial activity by photoactivation. Current status and future perspectives.	O