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Microwave synthesis of fluorescent carbon nanoparticles with electrochemiluminescence properties

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1026	Water-Soluble Fluorescent Carbon Quantum Dots and Photocatalyst Design. 2010 , 122, 4532-4536		230
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1024	Bandgap-Like Strong Fluorescence in Functionalized Carbon Nanoparticles. 2010 , 122, 5438-5442		123
1023	Water-soluble fluorescent carbon quantum dots and photocatalyst design. 2010 , 49, 4430-4		1947
1022	Luminescent carbon nanodots: emergent nanolights. 2010 , 49, 6726-44		3586
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1020	Group IV nanoparticles: synthesis, properties, and biological applications. 2010 , 6, 2080-98		242
1019	One-Step Synthesis of Highly Luminescent Carbon Dots in Noncoordinating Solvents. 2010 , 22, 4528-4530		333
1018	Commercially activated carbon as the source for producing multicolor photoluminescent carbon dots by chemical oxidation. <i>Chemical Communications</i> , 2010 , 46, 8812-4	5.8	474
1017	Applications and trends in electrochemiluminescence. 2010 , 39, 3275-304		825
1016	Extraction of Electrochemiluminescent Oxidized Carbon Quantum Dots from Activated Carbon. 2010 , 22, 5895-5899		343
1015	Synthesis of direct white-light emitting carbogenic quantum dots. <i>Chemical Communications</i> , 2010 , 46, 3309-11	5.8	145
1014	Novel fluorescent matrix embedded carbon quantum dots for the production of stable gold and silver hydrosols. 2011 , 21, 17638		36
1013	Synthesis of photoluminescent carbogenic dots using mesoporous silica spheres as nanoreactors. <i>Chemical Communications</i> , 2011 , 47, 764-6	5.8	243
1012	Flow-injection analysis of hydrogen peroxide based on carbon nanospheres catalyzed hydrogen carbonate-hydrogen peroxide chemiluminescent reaction. 2011 , 136, 1957-64		34

1011	Enhancement of Ultraweak Chemiluminescence from Reaction of Hydrogen Peroxide and Bisulfite by Water-Soluble Carbon Nanodots. 2011 , 115, 21707-21714		106
1010	Facile preparation and upconversion luminescence of graphene quantum dots. <i>Chemical Communications</i> , 2011 , 47, 2580-2	5.8	655
1009	Microwave-assisted Inorganic Syntheses. 2011 , 173-195		14
1008	Synthesis, functionalization and bioimaging applications of highly fluorescent carbon nanoparticles. 2011 , 3, 1533-40		286
1007	Biosensing with Nanoparticles as Electrogenerated Chemiluminescence Emitters. 2011 , 241-264		
1006	One-step synthesis of surface passivated carbon nanodots by microwave assisted pyrolysis for enhanced multicolor photoluminescence and bioimaging. 2011 , 21, 13163		262
1005	Highly selective detection of phosphate in very complicated matrixes with an off-on fluorescent probe of europium-adjusted carbon dots. <i>Chemical Communications</i> , 2011 , 47, 2604-6	5.8	400
1004	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. <i>Chemical Communications</i> , 2011 , 47, 6858-60	5.8	1295
1003	Peroxy-nitrous-acid-induced chemiluminescence of fluorescent carbon dots for nitrite sensing. 2011 , 83, 8245-51		364
1002	Fabrication of multi-structure nanocarbons from carbon xerogel: a unique scaffold towards bio-imaging. <i>Chemical Communications</i> , 2011 , 47, 8587-9	5.8	22
1001	Preparation of photoluminescent carbon nitride dots from CCl ₄ and 1,2-ethylenediamine: a heat-treatment-based strategy. 2011 , 21, 11726		163
1000	Reverse Stern-Volmer behavior for luminescence quenching in carbon nanoparticles. 2011 , 89, 104-109		33
999	Fluorescent carbon nanoparticles: electrochemical synthesis and their pH sensitive photoluminescence properties. 2011 , 35, 2666		107
998	Intrinsically fluorescent carbon dots with tunable emission derived from hydrothermal treatment of glucose in the presence of monopotassium phosphate. <i>Chemical Communications</i> , 2011 , 47, 11615-7	5.8	448
997	Enhancing the luminescence of carbon dots with a reduction pathway. <i>Chemical Communications</i> , 2011 , 47, 10650-2	5.8	343
996	Microwave assisted one-step green synthesis of cell-permeable multicolor photoluminescent carbon dots without surface passivation reagents. 2011 , 21, 2445		518
995	Analytical and bioanalytical applications of carbon dots. 2011 , 30, 1327-1336		470
994	Synthesis of fluorescent carbon nanoparticles directly from active carbon via a one-step ultrasonic treatment. 2011 , 46, 147-151		132

993	Intrinsically fluorescent nitrogen-containing carbon nanoparticles synthesized by a hydrothermal process. 2011 , 49, 5207-5212		139
992	Multicolor luminescent carbon nanoparticles: Synthesis, supramolecular assembly with porphyrin, intrinsic peroxidase-like catalytic activity and applications. 2011 , 4, 908-920		184
991	One-step synthesis of fluorescent hydroxyls-coated carbon dots with hydrothermal reaction and its application to optical sensing of metal ions. 2011 , 54, 1342-1347		108
990	Highly Luminescent Organosilane-Functionalized Carbon Dots. 2011 , 21, 1027-1031		486
989	One-step ultrasonic synthesis of water-soluble carbon nanoparticles with excellent photoluminescent properties. 2011 , 49, 605-609		688
988	Microwave-hydrothermal synthesis of fluorescent carbon dots from graphite oxide. 2011 , 49, 3134-3140		265
987	Water soluble carbon nanoparticles: hydrothermal synthesis and excellent photoluminescence properties. 2011 , 87, 326-32		88
986	Photoluminescent Fe ₃ O ₄ /carbon nanocomposite with magnetic property. 2011 , 356, 107-10		12
985	Carbon nanoparticle ionic liquid hybrids and their photoluminescence properties. 2011 , 358, 146-50		17
984	Electrochemical methods--important means for fabrication of fluorescent nanoparticles. 2012 , 137, 805-15		12
983	One-pot hydrothermal synthesis of graphene quantum dots surface-passivated by polyethylene glycol and their photoelectric conversion under near-infrared light. 2012 , 36, 97-101		403
982	Microwave-assisted synthesis of carbon nanodots through an eggshell membrane and their fluorescent application. 2012 , 137, 5392-7		208
981	Water soluble carbon nano-onions from wood wool as growth promoters for gram plants. 2012 , 4, 7670-5		102
980	Classical oxidant induced chemiluminescence of fluorescent carbon dots. <i>Chemical Communications</i> , 2012 , 48, 1051-3	5.8	161
979	Synthesis of high-quality carbon nanodots from hydrophilic compounds: role of functional groups. <i>Chemical Communications</i> , 2012 , 48, 3984-6	5.8	389
978	Highly selective and sensitive detection of Cu ²⁺ with lysine enhancing bovine serum albumin modified-carbon dots fluorescent probe. 2012 , 137, 2637-42		178
977	Solution phase synthesis of carbon quantum dots as sensitizers for nanocrystalline TiO ₂ solar cells. 2012 , 22, 1265-1269		236
976	One-pot green synthesis of optically pH-sensitive carbon dots with upconversion luminescence. 2012 , 4, 5572-5		579

975	Facile access to versatile fluorescent carbon dots toward light-emitting diodes. <i>Chemical Communications</i> , 2012 , 48, 2692-4	5.8	413
974	A Biocompatible Fluorescent Ink Based on Water-Soluble Luminescent Carbon Nanodots. 2012 , 124, 12381-12384		230
973	A biocompatible fluorescent ink based on water-soluble luminescent carbon nanodots. 2012 , 51, 12215-8		879
972	Photoluminescence of silicon quantum dots in nanospheres. 2012 , 4, 7760-5		20
971	Facile approach to the synthesis of carbon nanodots and their peroxidase mimetic function in azo dyes degradation. 2012 , 2, 7367		57
970	Carbon nanodots sensitized chemiluminescence on peroxomonosulfate-sulfite-hydrochloric acid system and its analytical applications. 2012 , 99, 471-7		45
969	Room-temperature synthesis of soluble, fluorescent carbon nanoparticles from organogel precursors. <i>Chemical Communications</i> , 2012 , 48, 10144-6	5.8	36
968	Photoluminescent Nanostructures from Graphite Oxidation. 2012 , 116, 20015-20022		37
967	Graphene quantum dots: an emerging material for energy-related applications and beyond. 2012 , 5, 8869		698
966	One-step ultrasonic synthesis of fluorescent N-doped carbon dots from glucose and their visible-light sensitive photocatalytic ability. 2012 , 36, 861		414
965	One step synthesis of C-dots by microwave mediated caramelization of poly(ethylene glycol). <i>Chemical Communications</i> , 2012 , 48, 407-9	5.8	308
964	Photoluminescent carbogenic nanoparticles directly derived from crude biomass. 2012 , 14, 3141		60
963	Graphene quantum dots with controllable surface oxidation, tunable fluorescence and up-conversion emission. 2012 , 2, 2717		337
962	Polyethyleneimine modified fluorescent carbon dots and their application in cell labeling. 2012 , 100, 209-14		102
961	Fingerprinting photoluminescence of functional groups in graphene oxide. 2012 , 22, 23374		165
960	Carbon dot-based inorganic-organic nanosystem for two-photon imaging and biosensing of pH variation in living cells and tissues. 2012 , 24, 5844-8		448
959	Amphiphilic Egg-Derived Carbon Dots: Rapid Plasma Fabrication, Pyrolysis Process, and Multicolor Printing Patterns. 2012 , 124, 9431-9435		127
958	Amphiphilic egg-derived carbon dots: rapid plasma fabrication, pyrolysis process, and multicolor printing patterns. 2012 , 51, 9297-301		519

957	Facile synthesis of highly emissive carbon dots from pyrolysis of glycerol; gram scale production of carbon dots/mSiO ₂ for cell imaging and drug release. 2012 , 22, 14403		283
956	Graphene quantum dots: emergent nanolights for bioimaging, sensors, catalysis and photovoltaic devices. <i>Chemical Communications</i> , 2012 , 48, 3686-99	5.8	1627
955	Amino acids as the source for producing carbon nanodots: microwave assisted one-step synthesis, intrinsic photoluminescence property and intense chemiluminescence enhancement. <i>Chemical Communications</i> , 2012 , 48, 9634-6	5.8	312
954	Carbon nanodots: synthesis, properties and applications. 2012 , 22, 24230		2021
953	Shifting and non-shifting fluorescence emitted by carbon nanodots. 2012 , 22, 5917		157
952	Defect-related luminescent materials: synthesis, emission properties and applications. 2012 , 41, 7938-61		211
951	Metal-enhanced fluorescence of carbon dots adsorbed Ag@SiO ₂ core-shell nanoparticles. 2012 , 2, 1765		56
950	One-step synthesis of amino-functionalized fluorescent carbon nanoparticles by hydrothermal carbonization of chitosan. <i>Chemical Communications</i> , 2012 , 48, 380-2	5.8	746
949	Synthesis of gold@carbon dots composite nanoparticles for surface enhanced Raman scattering. 2012 , 14, 7360-6		132
948	Formation of highly luminescent nearly monodisperse carbon quantum dots via emulsion-templated carbonization of carbohydrates. 2012 , 2, 11223		42
947	Protein as the source for synthesizing fluorescent carbon dots by a one-pot hydrothermal route. 2012 , 2, 8599		147
946	Bifunctional fluorescent carbon nanodots: green synthesis via soy milk and application as metal-free electrocatalysts for oxygen reduction. <i>Chemical Communications</i> , 2012 , 48, 9367-9	5.8	569
945	Selective Desulfurization of Model Diesel Fuel by Carbon Nanoparticles as Adsorbent. 2012 , 51, 14419-14427		13
944	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. 2012 , 22, 15522		94
943	Rapid microwave synthesis of fluorescent hydrophobic carbon dots. 2012 , 2, 12129		99
942	Synthesis of carbogenic nanosphere from peanut skin. 2012 , 24, 11-14		38
941	Synthesis of biocompatible multicolor luminescent carbon dots for bioimaging applications. 2012 , 13, 045008		105
940	Recent advances in new luminescent nanomaterials for electrochemiluminescence sensors. 2012 , 2, 3579		75

939	In vivo NIR fluorescence imaging, biodistribution, and toxicology of photoluminescent carbon dots produced from carbon nanotubes and graphite. 2012 , 8, 281-90		507
938	Synthesis and analytical applications of photoluminescent carbon nanodots. 2012 , 14, 917		329
937	Facile synthesis of graphitic carbon quantum dots with size tunability and uniformity using reverse micelles. <i>Chemical Communications</i> , 2012 , 48, 5256-8	5.8	191
936	Control the size and surface chemistry of graphene for the rising fluorescent materials. <i>Chemical Communications</i> , 2012 , 48, 4527-39	5.8	356
935	Electron transfer quenching by nitroxide radicals of the fluorescence of carbon dots. 2012 , 22, 11801		76
934	Highly luminescent carbon nanodots by microwave-assisted pyrolysis. <i>Chemical Communications</i> , 2012 , 48, 7955-7	5.8	725
933	Bioimaging of hyaluronic acid derivatives using nanosized carbon dots. 2012 , 13, 2554-61		141
932	A Tunable Multicolor Photoluminescent Nanocarbon Prepared from Castor Oil Soot. 2012 , 59, 802-808		4
931	Fluorescent carbon nanodots conjugated with folic acid for distinguishing folate-receptor-positive cancer cells from normal cells. 2012 , 22, 12568		173
930	Presence of amorphous carbon nanoparticles in food caramels. 2012 , 2, 383		183
929	Easy synthesis and imaging applications of cross-linked green fluorescent hollow carbon nanoparticles. 2012 , 6, 400-9		409
928	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Up-Conversion Bioimaging Applications. 2012 , 22, 4732-4740		900
927	Observation of lasing emission from carbon nanodots in organic solvents. 2012 , 24, 2263-7		132
926	Light-triggered theranostics based on photosensitizer-conjugated carbon dots for simultaneous enhanced-fluorescence imaging and photodynamic therapy. 2012 , 24, 5104-10		557
925	Dramatic fluorescence enhancement of bare carbon dots through facile reduction chemistry. 2012 , 13, 3549-55		60
924	Formation mechanism of carbogenic nanoparticles with dual photoluminescence emission. 2012 , 134, 747-50		637
923	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. 2012 , 6, 5102-10		1323
922	Universal correlation between solvent polarity, fluorescence lifetime and macroscopic viscosity of alcohol solutions. 2012 , 22, 865-70		4

921	Physical and fluorescent characteristics of non-functionalized carbon nanoparticles from candle soot. 2012 , 14, 1		14
920	Rapid and facile desulphurization of liquid fuel by carbon nanoparticles dispersed in aqueous phase. 2012 , 95, 93-96		17
919	Fluorescence behavior of non-functionalized carbon nanoparticles and their in vitro applications in imaging and cytotoxic analysis of cancer cells. 2012 , 91, 34-40		27
918	Unique chemical grafting of carbon nanoparticle on fabricated ZnO nanorod: Antibacterial and bioimaging property. 2012 , 47, 586-594		26
917	Facile synthesis of fluorescent carbon dots using watermelon peel as a carbon source. 2012 , 66, 222-224		343
916	Simple and eco-friendly solvothermal synthesis of luminescent reduced graphene oxide small sheets. 2012 , 78, 170-173		13
915	Research on the spectral properties of luminescent carbon dots. 2012 , 95, 555-61		28
914	Amorphous carbon nanoparticles: a versatile label for rapid diagnostic (immuno)assays. 2012 , 402, 593-600		114
913	Production of superoxide anion radicals as evidence for carbon nanodots acting as electron donors by the chemiluminescence method. <i>Chemical Communications</i> , 2013 , 49, 5871-3	5.8	106
912	A novel one-pot route for large-scale preparation of highly photoluminescent carbon quantum dots powders. 2013 , 5, 9558-61		141
911	Plant leaf-derived fluorescent carbon dots for sensing, patterning and coding. 2013 , 1, 4925		231
910	Carbon dots and chitosan composite film based biosensor for the sensitive and selective determination of dopamine. 2013 , 138, 5417-23		124
909	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. 2013 , 7, 732-738		447
908	Blue and green luminescence of reduced graphene oxide quantum dots. 2013 , 63, 537-546		58
907	Reduced carbon dots versus oxidized carbon dots: photo- and electrochemiluminescence investigations for selected applications. 2013 , 19, 6282-8		121
906	A novel solid-state electrochemiluminescence sensor for the determination of hydrogen peroxide based on an Au nanocluster-silica nanoparticle nanocomposite. 2013 , 138, 5563-5		27
905	Capillary electrophoretic study of amine/carboxylic acid-functionalized carbon nanodots. 2013 , 1304, 234-40		56
904	Carbon nanodots as a matrix for the analysis of low-molecular-weight molecules in both positive- and negative-ion matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and quantification of glucose and uric acid in real samples. 2013 , 85, 6646-52		131

903	Size-Dependent Structural and Optical Characteristics of Glucose-Derived Graphene Quantum Dots. 2013 , 30, 523-531		136
902	Amphibious fluorescent carbon dots: one-step green synthesis and application for light-emitting polymer nanocomposites. <i>Chemical Communications</i> , 2013 , 49, 8078-80	5.8	128
901	Synthesis of fluorescent carbon nanoparticles from polyacrylamide for fast cellular endocytosis. 2013 , 3, 15589		36
900	Electrogenerated chemiluminescence detection of trace level pentachlorophenol using carbon quantum dots. 2013 , 138, 2038-43		63
899	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. 2013 , 184, 156-162		184
898	Simple one-step synthesis of water-soluble fluorescent carbon dots derived from paper ash. 2013 , 3, 13119		95
897	Facile plasma-induced fabrication of fluorescent carbon dots toward high-performance white LEDs. 2013 , 48, 6307-6311		79
896	Graphitized carbon dots emitting strong green photoluminescence. 2013 , 1, 4902		61
895	Carbon quantum dot-functionalized aerogels for NO ₂ gas sensing. 2013 , 85, 8065-9		101
894	Facile synthesis of halogenated carbon quantum dots as an important intermediate for surface modification. 2013 , 3, 9625		42
893	Ascorbic acid assisted green route for synthesis of water dispersible carbon dots. 2013 , 29, 401-403		16
892	An absolutely green approach to fabricate carbon nanodots from soya bean grounds. 2013 , 3, 20662		79
891	Systematic safety evaluation on photoluminescent carbon dots. 2013 , 8, 122		137
890	Enhanced photoluminescence and characterization of multicolor carbon dots using plant soot as a carbon source. 2013 , 115, 950-6		91
889	A carbon quantum dot decorated RuO ₂ network: outstanding supercapacitances under ultrafast charge and discharge. 2013 , 6, 3665		247
888	Hydrothermal synthesis of nitrogen-containing carbon nanodots as the high-efficient sensor for copper(II) ions. 2013 , 48, 1728-1731		55
887	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. 2013 , 117, 24991-24996		100
886	Hair fiber as a precursor for synthesizing of sulfur- and nitrogen-co-doped carbon dots with tunable luminescence properties. 2013 , 64, 424-434		601

885	Carbon quantum dots-doped CdS microspheres with enhanced photocatalytic performance. 2013 , 569, 102-110		78
884	Transfection and intracellular trafficking properties of carbon dot-gold nanoparticle molecular assembly conjugated with PEI-pDNA. 2013 , 34, 7168-80		137
883	Quantum Dots. 2013 , 9-24		
882	Hydrothermally Synthesized Carbonaceous Nanocomposites. 2013 , 101-124		
881	Preparation of highly luminescent and biocompatible carbon dots using a new extraction method. 2013 , 15, 1		7
880	A new hydrothermal refluxing route to strong fluorescent carbon dots and its application as fluorescent imaging agent. 2013 , 117, 196-202		64
879	Photoluminescence enhancement of carbon dots by gold nanoparticles conjugated via PAMAM dendrimers. 2013 , 5, 11200-6		43
878	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles/reduced graphene oxide nanocomposites for glucose detection. 2013 , 3, 1027		150
877	Large scale synthesis of photoluminescent carbon nanodots and their application for bioimaging. 2013 , 5, 1967-71		212
876	Focusing on luminescent graphene quantum dots: current status and future perspectives. 2013 , 5, 4015-39		1120
875	Photoluminescent organosilane-functionalized carbon dots as temperature probes. <i>Chemical Communications</i> , 2013 , 49, 1639-41	5.8	127
874	Hydrothermal synthesis of highly fluorescent carbon nanoparticles from sodium citrate and their use for the detection of mercury ions. 2013 , 52, 583-589		421
873	One-step synthesis of yellow-emitting carbogenic dots toward white light-emitting diodes. 2013 , 48, 2352-2357		84
872	Microwave heating of arginine yields highly fluorescent nanoparticles. 2013 , 15, 1		20
871	Crosslinked carbon dots as ultra-bright fluorescence probes. 2013 , 9, 545-51		76
870	Exploring the Interior of Hollow Fluorescent Carbon Nanoparticles. 2013 , 117, 4260-4267		12
869	Lead-vitamin complex [Pb(C ₁₉ H ₁₅ N ₇ O ₆)] ₄ H ₂ O and its application in bioimaging. 2013 , 29, 165-168		5
868	Zr(H ₂ O) ₂ EDTA modulated luminescent carbon dots as fluorescent probes for fluoride detection. 2013 , 138, 278-83		68

867	Labeling of human hepatocellular carcinoma cells by hexamethylene diamine modified fluorescent carbon dots. 2013 , 116, 209-13	10
866	Synthesis of a sugar-organometallic compound 1,1'-difurfurylferrocene and its microwave preparation of carbon/iron oxide nanocomposite. 2013 , 264, 242-246	4
865	Chemiluminescence of carbon dots under strong alkaline solutions: a novel insight into carbon dot optical properties. 2013 , 5, 2655-8	129
864	Graphitic carbon quantum dots as a fluorescent sensing platform for highly efficient detection of Fe ³⁺ ions. 2013 , 3, 3733	216
863	Sulfur-incorporated carbon quantum dots with a strong long-wavelength absorption band. 2013 , 1, 2002	58
862	Extremely high inhibition activity of photoluminescent carbon nanodots toward cancer cells. 2013 , 1, 1774-1781	141
861	Carbon dots prepared by hydrothermal treatment of dopamine as an effective fluorescent sensing platform for the label-free detection of iron(III) ions and dopamine. 2013 , 19, 7243-9	562
860	Room temperature and solvothermal green synthesis of self passivated carbon quantum dots. 2013 , 3, 3189	76
859	Synthesis of photoluminescent carbon nanoparticles from graphite. 2013 , 15, 1	4
858	Encodable multiple-fluorescence CdTe@carbon nanoparticles from nanocrystal/colloidal crystal guest-host ensembles. 2013 , 24, 135602	8
857	ZnO/carbon quantum dots heterostructure with enhanced photocatalytic properties. 2013 , 279, 367-373	145
856	One-pot hydrothermal synthesis of highly luminescent nitrogen-doped amphoteric carbon dots for bioimaging from Bombyx mori silk - natural proteins. 2013 , 1, 2868-2873	388
855	Electrochemiluminescence emission from carbon quantum dot-sulfite coreactant system. 2013 , 56, 12-17	92
854	Preparation of high-quality biocompatible carbon dots by extraction, with new thoughts on the luminescence mechanisms. 2013 , 24, 225601	55
853	Bioimaging of targeting cancers using aptamer-conjugated carbon nanodots. <i>Chemical Communications</i> , 2013 , 49, 6543-5	5.8 66
852	Luminescent carbon quantum dots and their application in cell imaging. 2013 , 37, 2515	117
851	Development of multicolor carbon nanoparticles for cell imaging. 2013 , 108, 59-65	53
850	Observation of fluorescence from non-functionalized carbon nanoparticles and its solvent dependent spectroscopy. 2013 , 141, 155-161	28

849	Freestanding Luminescent Films of Nitrogen-Rich Carbon Nanodots toward Large-Scale Phosphor-Based White-Light-Emitting Devices. 2013 , 25, 1893-1899	208
848	Aptamer-based turn-on detection of thrombin in biological fluids based on efficient phosphorescence energy transfer from Mn-doped ZnS quantum dots to carbon nanodots. 2013 , 19, 9242-50	56
847	Microwave assisted one-step green synthesis of fluorescent carbon nanoparticles from ionic liquids and their application as novel fluorescence probe for quercetin determination. 2013 , 140, 120-125	57
846	The production of pH-sensitive photoluminescent carbon nanoparticles by the carbonization of polyethylenimine and their use for bioimaging. 2013 , 55, 343-349	166
845	Fabrication of highly fluorescent graphene quantum dots using L-glutamic acid for / imaging and sensing. 2013 , 1, 4676-4684	319
844	Aryl-modified graphene quantum dots with enhanced photoluminescence and improved pH tolerance. 2013 , 5, 7361-7	80
843	Effect of injection routes on the biodistribution, clearance, and tumor uptake of carbon dots. 2013 , 7, 5684-93	268
842	Microwave-assisted one-step green synthesis of amino-functionalized fluorescent carbon nitride dots from chitosan. 2013 , 28, 612-5	55
841	Controllable Synthesis of Fluorescent Carbon Dots and Their Detection Application as Nanoprobes. 2013 , 5, 247-259	200
840	Carbon quantum dot-based field-effect transistors and their ligand length-dependent carrier mobility. 2013 , 5, 822-7	40
839	Electrogenerated chemiluminescence of nanomaterials for bioanalysis. 2013 , 138, 43-61	166
838	ECL Luminophores. 2013 , 45-60	
837	Solvent-free Synthesis of Flowable Carbon Clusters with Customizable Size and Tunable Optical Performance. 2013 , 31, 1513-1518	3
836	CHARACTERIZATION AND TOXICITY OF CARBON DOT-POLY(LACTIC-CO-GLYCOLIC ACID) NANOCOMPOSITES FOR BIOMEDICAL IMAGING. 2013 , 03, 1340002	11
835	AN EASY METHOD TO SYNTHESIZE CARBON-COATED QUANTUM DOTS. 2013 , 03, 1340006	1
834	Cancer Theranostics with Carbon-Based Nanoplatfoms. 2014 , 347-361	1
833	Facile ionic-liquid-assisted electrochemical synthesis of size-controlled carbon quantum dots by tuning applied voltages. 2014 , 4, 57615-57619	27
832	Sensitive detection of biothiols and histidine based on the recovered fluorescence of the carbon quantum dots-Hg(II) system. 2015 , 859, 72-8	86

831	From highly graphitic to amorphous carbon dots: A critical review. 2014 , 1, 1	33
830	Functionalized carbon dots enable simultaneous bone crack detection and drug deposition. 2014 , 2, 8626-8632	25
829	Sonochemical synthesis of highly photoluminescent carbon nanodots. 2014 , 4, 52230-52234	21
828	Simple one-step synthesis of water-soluble fluorescent carbon dots from waste paper. 2014 , 38, 906	100
827	The use of a microreactor for rapid screening of the reaction conditions and investigation of the photoluminescence mechanism of carbon dots. 2014 , 20, 4246-50	36
826	Photoluminescent carbon dots from 1,4-addition polymers. 2014 , 20, 10926-31	26
825	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. 2014 , 24, 2689-2695	171
824	Salt-embedded carbon nanodots as a UV and thermal stable fluorophore for light-emitting diodes. 2014 , 154, 1-7	47
823	Multifunctional carbon dots with high quantum yield for imaging and gene delivery. 2014 , 67, 508-513	173
822	One-step microwave-assisted polyol synthesis of green luminescent carbon dots as optical nanoprobes. 2014 , 68, 258-264	259
821	Photoluminescent carbon dots directly derived from polyethylene glycol and their application for cellular imaging. 2014 , 71, 87-93	182
820	A one-step sonoelectrochemical preparation method of pure blue fluorescent carbon nanoparticles under a high intensity electric field. 2014 , 66, 77-83	30
819	A nanocomposite of carbon quantum dots and TiO ₂ nanotube arrays: enhancing photoelectrochemical and photocatalytic properties. 2014 , 4, 1120-1127	128
818	One-pot green synthesis of carbon dots by using <i>Saccharum officinarum</i> juice for fluorescent imaging of bacteria (<i>Escherichia coli</i>) and yeast (<i>Saccharomyces cerevisiae</i>) cells. 2014 , 38, 20-7	265
817	High-performance liquid chromatographic and mass spectrometric analysis of fluorescent carbon nanodots. 2014 , 129, 529-38	30
816	Functionalized carbon dots as sensors for gold nanoparticles in spiked samples: formation of nanohybrids. 2014 , 820, 133-8	47
815	Synthesis of ultra-stable fluorescent carbon dots from polyvinylpyrrolidone and their application in the detection of hydroxyl radicals. 2014 , 9, 1054-9	28
814	An immunosensor designed for polybrominated biphenyl detection based on fluorescence resonance energy transfer (FRET) between carbon dots and gold nanoparticles. 2014 , 195, 540-548	61

813	Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. 2014 , 4, 21101	52
812	Single-step preparation of fluorescent carbon nanoparticles, and their application as a fluorometric probe for quercetin. 2014 , 181, 1309-1316	24
811	High-yield and high-solubility nitrogen-doped carbon dots: formation, fluorescence mechanism and imaging application. 2014 , 4, 1563-1566	80
810	Graphene quantum dots/L-cysteine coreactant electrochemiluminescence system and its application in sensing lead(II) ions. 2014 , 6, 1646-51	123
809	Efficient one-pot synthesis of highly monodisperse carbon quantum dots. 2014 , 4, 18-21	30
808	Synthesis of fluorescent carbon dots by a microwave heating process: structural characterization and cell imaging applications. 2014 , 16, 1	31
807	Aqueous phase synthesis of highly luminescent, nitrogen-doped carbon dots and their application as bioimaging agents. 2014 , 30, 14270-5	94
806	Synthesis of fluorescent carbon nanoparticles grafted with polystyrene and their fluorescent fibers processed by electrospinning. 2014 , 4, 57683-57690	10
805	Nitrogen-doped carbon dots as multifunctional fluorescent probes. 2014 , 16, 1	16
804	High-quality carbon dots: synthesis, peroxidase-like activity and their application in the detection of H ₂ O ₂ , Ag ⁺ and Fe ³⁺ . 2014 , 4, 17387-17392	92
803	Synthesis and unique photoluminescence properties of nitrogen-rich quantum dots and their applications. 2014 , 53, 12542-7	67
802	Fluorescent carbon nanoparticles derived from natural materials of mango fruit for bio-imaging probes. 2014 , 6, 15196-202	69
801	Tuning luminescence via transition metal-directed strategy in coordination polymers. 2014 , 16, 4422	10
800	Facile synthesis and photoelectric properties of carbon dots with upconversion fluorescence using arc-synthesized carbon by-products. 2014 , 4, 4839	32
799	Phosphorus-doped macroporous carbon spheres for high efficiency selective oxidation of cyclooctene by air. 2014 , 4, 22419	10
798	Polyamine-functionalized carbon nanodots: a novel chemiluminescence probe for selective detection of iron(III) ions. 2014 , 4, 45768-45771	37
797	Highly sensitive, stable, and precise detection of dopamine with carbon dots/tyrosinase hybrid as fluorescent probe. 2014 , 4, 46437-46443	30
796	Economical and green synthesis of bagasse-derived fluorescent carbon dots for biomedical applications. 2014 , 25, 315702	96

795	Green and size-controllable synthesis of photoluminescent carbon nanoparticles from waste plastic bags. 2014 , 4, 47169-47176	29
794	Optimization of one-step and one-substrate synthesis of carbon nanodots by microwave pyrolysis. 2014 , 4, 40907-40911	6
793	Facile synthesis of water-soluble and biocompatible fluorescent nitrogen-doped carbon dots for cell imaging. 2014 , 139, 1692-6	103
792	Size controlled synthesis of carbon quantum dots using hydride reducing agents. 2014 , 2, 6025-6031	39
791	Accelerated reducing synthesis of Ag@CDs composite and simultaneous determination of glucose during the synthetic process. 2014 , 4, 3992-3997	15
790	Solution reduction synthesis of amine terminated carbon quantum dots. 2014 , 4, 12094-12097	17
789	Low-cost synthesis of carbon nanodots from natural products used as a fluorescent probe for the detection of ferrum(III) ions in lake water. 2014 , 6, 2086	93
788	Fluorescent carbon nanowires made by pyrolysis of DNA nanofibers and plasmon-assisted emission enhancement of their fluorescence. <i>Chemical Communications</i> , 2014 , 50, 11887-90	5.8 8
787	Sweet nanodot for biomedical imaging: carbon dot derived from xylitol. 2014 , 4, 23210	33
786	Vegetable-extracted carbon dots and their nanocomposites for enhanced photocatalytic H ₂ production. 2014 , 4, 44117-44123	77
785	Facile Access to White Fluorescent Carbon Dots toward Light-Emitting Devices. 2014 , 53, 6417-6425	138
784	Separation of carbon quantum dots on a C18 column by binary gradient elution via HPLC. 2014 , 6, 8124-8128	18
783	One-pot hydrothermal synthesis of orange fluorescent silver nanoclusters as a general probe for sulfides. 2014 , 139, 3441-5	27
782	Vitamin B1 derived blue and green fluorescent carbon nanoparticles for cell-imaging application. 2014 , 6, 7672-9	75
781	Hydrothermal conversion of one-photon-fluorescent poly(4-vinylpyridine) into two-photon-fluorescent carbon nanodots. 2014 , 30, 11746-52	24
780	Microwave-assisted polyol synthesis of gadolinium-doped green luminescent carbon dots as a bimodal nanoprobe. 2014 , 30, 10933-9	122
779	Preparation of multicolor emitting carbon dots for HeLa cell imaging. 2014 , 38, 6152-6160	173
778	Electrochemically generated versus photoexcited luminescence from semiconductor nanomaterials: bridging the valley between two worlds. 2014 , 114, 11027-59	195

777	Applications of carbon quantum dots in electrochemiluminescence: A mini review. 2014 , 48, 151-154	128
776	Carbon quantum dots: synthesis, properties and applications. 2014 , 2, 6921	1396
775	Facile synthesis of analogous graphene quantum dots with sp(2) hybridized carbon atom dominant structures and their photovoltaic application. 2014 , 6, 13043-52	66
774	Optical properties of carbon nanodots synthesized by laser induced fragmentation of graphite powder suspended in water. 2014 , 27, 150-153	3
773	Chemically tailoring coal to fluorescent carbon dots with tuned size and their capacity for Cu(II) detection. 2014 , 10, 4926-33	157
772	A green heterogeneous synthesis of N-doped carbon dots and their photoluminescence applications in solid and aqueous states. 2014 , 6, 10307-15	258
771	Fluorescent carbon dot (C-dot) nanoclusters. 2014 , 25, 375601	5
770	Hair-derived carbon dots toward versatile multidimensional fluorescent materials. 2014 , 2, 6477-6483	116
769	Determination of metronidazole by a flow-injection chemiluminescence method using ZnO-doped carbon quantum dots. 2014 , 29, 216-224	12
768	Luminescent magnetic hollow mesoporous silica nanotheranostics for camptothecin delivery and multimodal imaging. 2014 , 2, 3799-3808	55
767	Facile route to highly photoluminescent carbon nanodots for ion detection, pH sensors and bioimaging. 2014 , 6, 9139-47	70
766	Carbon dots from tryptophan doped glucose for peroxyxynitrite sensing. 2014 , 852, 174-80	38
765	Synthesis and Unique Photoluminescence Properties of Nitrogen-Rich Quantum Dots and Their Applications. 2014 , 126, 12750-12755	29
764	One-pot green synthesis of water-soluble carbon nanodots with multicolor photoluminescence from polyethylene glycol. 2014 , 2, 3937-3945	62
763	A multifunctional ribonuclease A-conjugated carbon dot cluster nanosystem for synchronous cancer imaging and therapy. 2014 , 9, 397	38
762	Large-scale solvothermal synthesis of fluorescent carbon nanoparticles. 2014 , 25, 395601	7
761	Multifunctional water-soluble luminescent carbon dots for imaging and Hg sensing. 2014 , 2, 6995-6999	84
760	Carbon dots—emerging light emitters for bioimaging, cancer therapy and optoelectronics. 2014 , 9, 590-603	655

759	Green synthesis of luminescent nitrogen-doped carbon dots from milk and its imaging application. 2014 , 86, 8902-5	384
758	Photoluminescence, chemiluminescence and anodic electrochemiluminescence of hydrazide-modified graphene quantum dots. 2014 , 6, 11240-5	70
757	Dual-peak electrogenerated chemiluminescence of carbon dots for iron ions detection. 2014 , 86, 5620-3	75
756	Luminescent properties of milk carbon dots and their sulphur and nitrogen doped analogues. 2014 , 4, 51658-51665	47
755	Molybdenum disulfide quantum dots as a photoluminescence sensing platform for 2,4,6-trinitrophenol detection. 2014 , 86, 7463-70	296
754	Graphene quantum dots, graphene oxide, carbon quantum dots and graphite nanocrystals in coals. 2014 , 6, 7410-5	170
753	Nitrogen-doped, carbon-rich, highly photoluminescent carbon dots from ammonium citrate. 2014 , 6, 1890-5	668
752	Carbon-ensemble-manipulated ZnS heterostructures for enhanced photocatalytic H ₂ evolution. 2014 , 6, 9673-80	64
751	Carbon dots based dual-emission silica nanoparticles as a ratiometric nanosensor for Cu(2+). 2014 , 86, 2289-96	241
750	Hydrothermal Nanocarbons. 2014 , 351-406	
749	Fluorescent nanomaterial-derived white light-emitting diodes: what's going on. 2014 , 2, 4358-4373	89
748	Facile synthesis and optical properties of nitrogen-doped carbon dots. 2014 , 38, 1522	70
747	A facile large-scale microwave synthesis of highly fluorescent carbon dots from benzenediol isomers. 2014 , 2, 5028-5035	63
746	Green synthesis of fluorescent nitrogen/sulfur-doped carbon dots and investigation of their properties by HPLC coupled with mass spectrometry. 2014 , 4, 18065-18073	73
745	Implications of surface passivation on physicochemical and bioimaging properties of carbon dots. 2014 , 4, 20915-20921	86
744	Charge storage and memory effect in graphene quantum dots [PEG600 hybrid nanocomposite. 2014 , 15, 216-225	22
743	Fluorescence immunoassay based on carbon dots as labels for the detection of human immunoglobulin G. 2014 , 6, 4430-4436	44
742	Microwave-assisted preparation of inorganic nanostructures in liquid phase. 2014 , 114, 6462-555	550

741	From metal-organic framework to intrinsically fluorescent carbon nanodots. 2014 , 20, 8279-82	50
740	Waste frying oil as a precursor for one-step synthesis of sulfur-doped carbon dots with pH-sensitive photoluminescence. 2014 , 77, 775-782	249
739	Size separation of carbon nanoparticles from diesel soot for Mn(II) sensing. 2014 , 146, 37-41	17
738	Nanostructure sensitization of transition metal oxides for visible-light photocatalysis. 2014 , 5, 696-710	73
737	One-step Synthesis of Highly Luminescent Nitrogen-doped Carbon Dots for Selective and Sensitive Detection of Mercury(II) Ions and Cellular Imaging. 2015 , 31, 971-7	22
736	Single Particle Dynamic Imaging and Fe ³⁺ Sensing with Bright Carbon Dots Derived from Bovine Serum Albumin Proteins. 2015 , 5, 17727	70
735	Preparation of highly luminescent and color tunable carbon nanodots under visible light excitation for in vitro and in vivo bio-imaging. 2015 , 30, 3386-3393	15
734	Synthesis and Modification of Carbon Nanomaterials utilizing Microwave Heating. 2015 , 27, 4113-41	186
733	H ₂ O ₂ -Assisted Hydrothermal Process: A Green, Versatile Route to Synthesize Size-Controllable Nitrogen-Doped Fluorescent Carbon Nanoparticles from Natural Macromolecules. 2015 , 32, 176-181	8
732	Preparation and Application of Fluorescent Carbon Dots. 2015 , 2015, 1-13	84
731	Biocompatibility and Bioimaging Application of Carbon Nanoparticles Synthesized by Phosphorus Pentoxide Combustion Method. 2015 , 2015, 1-10	7
730	Highly Photoluminescent Carbon Dots Derived from Egg White: Facile and Green Synthesis, Photoluminescence Properties, and Multiple Applications. 2015 , 3, 1412-1418	116
729	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. 2015 , 115, 4744-822	1137
728	A visual physiological temperature sensor developed with gelatin-stabilized luminescent silver nanoclusters. 2015 , 143, 469-473	15
727	How do nitrogen-doped carbon dots generate from molecular precursors? An investigation of the formation mechanism and a solution-based large-scale synthesis. 2015 , 3, 5608-5614	92
726	An efficient solid-state synthesis of fluorescent surface carboxylated carbon dots derived from C ₆₀ as a label-free probe for iron ions in living cells. 2015 , 144, 93-7	25
725	Synthesis and structural properties of ZnO nanowires modified by carbon quantum dots. 2015 ,	
724	Carbon dots isolated from chromatographic fractions for sensing applications. 2015 , 5, 106838-106847	7

723	Microbial Toxicity of a Type of Carbon Dots to Escherichia coli. 2015 , 69, 506-14	9
722	Facile Microwave-Assisted Solid-Phase Synthesis of Highly Fluorescent Nitrogen-Sulfur-Codoped Carbon Quantum Dots for Cellular Imaging Applications. 2015 , 21, 13004-11	77
721	One-step synthesis of hollow carbon nanospheres in non-coordinating solvent. 2015 , 83, 180-182	14
720	Highly luminescent organosilane-functionalized carbon dots as a nanosensor for sensitive and selective detection of quercetin in aqueous solution. 2015 , 135, 145-8	59
719	Imidazole derivative-functionalized carbon dots: using as a fluorescent probe for detecting water and imaging of live cells. 2015 , 44, 5547-54	57
718	Carbon dots from PEG for highly sensitive detection of levodopa. 2015 , 3, 2378-2387	41
717	Oxygen-driven, high-efficiency production of nitrogen-doped carbon dots from alkanolamines and their application for two-photon cellular imaging. 2015 , 5, 15366-15373	29
716	The preparation of ethylenediamine-modified fluorescent carbon dots and their use in imaging of cells. 2015 , 30, 867-71	23
715	Facile synthesis of biocompatible N, S-doped carbon dots for cell imaging and ion detecting. 2015 , 5, 16368-16375	39
714	Simple and sensitive fluorescent and electrochemical trinitrotoluene sensors based on aqueous carbon dots. 2015 , 87, 2033-6	130
713	One-pot electrochemical synthesis of functionalized fluorescent carbon dots and their selective sensing for mercury ion. 2015 , 866, 69-74	173
712	High-quality water-soluble luminescent carbon dots for multicolor patterning, sensors, and bioimaging. 2015 , 5, 16972-16979	55
711	Glycine-functionalized carbon quantum dots as chemiluminescence sensitization for detection of m-phenylenediamine. 2015 , 7, 1133-1139	27
710	Highly luminescent carbon nanoparticles as yellow emission conversion phosphors. 2015 , 143, 290-293	14
709	One pot selective synthesis of water and organic soluble carbon dots with green fluorescence emission. 2015 , 5, 11667-11675	57
708	Pure carbon nanodots for excellent photocatalytic hydrogen generation. 2015 , 5, 21332-21335	40
707	Synthesis and characterization of C@CdS dots in aqueous solution and their application in labeling human gastric carcinoma cells. 2015 , 17, 1	1
706	Concentration-dependent effect of photoluminescent carbon dots on the microbial activity of the soil studied by combination methods. 2015 , 39, 857-63	7

705	Assay of ceftazidime and cefepime based on fluorescence quenching of carbon quantum dots. 2015 , 30, 1133-8	14
704	Fabrication of transparent and photoluminescent poly(vinyl butyral)/carbon dots nanocomposite thin film. 2015 , 2, 026403	3
703	Scale-Up Synthesis of Fragrant Nitrogen-Doped Carbon Dots from Bee Pollens for Bioimaging and Catalysis. 2015 , 2, 1500002	129
702	Carbon dots preparation as a fluorescent sensing platform for highly efficient detection of Fe(III) ions in biological systems. 2015 , 150, 934-9	28
701	Host-Guest Carbon Dots for Enhanced Optical Properties and Beyond. 2015 , 5, 12354	40
700	Luminescent assays based on carbon dots for inorganic trace analysis. 2015 , 34,	5
699	High Performance Photoluminescent Carbon Dots for In Vitro and In Vivo Bioimaging: Effect of Nitrogen Doping Ratios. 2015 , 31, 8063-73	146
698	Carbon quantum dots displaying dual-wavelength photoluminescence and electrochemiluminescence prepared by high-energy ball milling. 2015 , 94, 472-478	68
697	Polyol synthesis of nanoparticles: status and options regarding metals, oxides, chalcogenides, and non-metal elements. 2015 , 17, 4107-4132	248
696	Development of a carbon dot (C-Dot)-linked immunosorbent assay for the detection of human β -fetoprotein. 2015 , 87, 8510-6	89
695	Polyhedral Oligomeric Silsesquioxane Functionalized Carbon Dots for Cell Imaging. 2015 , 7, 16609-16	81
694	Spectroscopic Investigation of Interaction Between Carbon Quantum Dots and D-Penicillamine Capped Gold Nanoparticles. 2015 , 25, 1085-93	9
693	Photoluminescent carbon dots synthesized by microwave treatment for selective image of cancer cells. 2015 , 456, 1-6	57
692	Biogenic Synthesis of Fluorescent Carbon Dots at Ambient Temperature Using Azadirachta indica (Neem) gum. 2015 , 25, 1103-7	26
691	Retracted Article: Amino acid derived highly luminescent, heteroatom-doped carbon dots for label-free detection of Cd ²⁺ /Fe ³⁺ , cell imaging and enhanced antibacterial activity. 2015 , 5, 58141-58153	54
690	Enzyme-free hydrogen peroxide sensor based on Au@Ag@C core-double shell nanocomposites. 2015 , 347, 428-434	29
689	Reduced carbon dots employed for synthesizing metal nanoclusters and nanoparticles. 2015 , 5, 32669-32674	29
688	N, S co-doped carbon dots with orange luminescence synthesized through polymerization and carbonization reaction of amino acids. 2015 , 342, 136-143	104

687	Identifying the existence of highly-fluorescent carboxylic group-rich carbon nanodots during a one-pot synthesis of branched polyethylenimine-passivated amine group-rich carbon nanodots. 2015 , 5, 40588-40594	7
686	Fluorescent N-doped carbon dots for both cellular imaging and highly-sensitive catechol detection. 2015 , 91, 66-75	122
685	Integrative Self-assembly of Graphene Quantum Dot and Biopolymer into a Versatile Biosensing Toolkit. 2015 , 25, 3183-3192	52
684	Rapid microwave-assisted synthesis of ultra-bright fluorescent carbon dots for live cell staining, cell-specific targeting and in vivo imaging. 2015 , 3, 4786-4789	47
683	The sonochemical synthesis of Ga@C-dots particles. 2015 , 5, 25533-25540	36
682	Photoluminescent carbon nanodots: synthesis, physicochemical properties and analytical applications. 2015 , 18, 447-458	317
681	Blue/green luminescent carbon nanodots produced in a silica matrix. 2015 , 91, 234-240	14
680	One-pot green synthesis of oxygen-rich nitrogen-doped graphene quantum dots and their potential application in pH-sensitive photoluminescence and detection of mercury(II) ions. 2015 , 142, 131-9	123
679	Nanomaterial-based biosensors using dual transducing elements for solution phase detection. 2015 , 140, 2916-43	27
678	Bioinspired synthesis of fluorescent calcium carbonate/carbon dot hybrid composites. 2015 , 44, 8232-7	22
677	Efficient in vitro and in vivo pulmonary delivery of nucleic acid by carbon dot-based nanocarriers. 2015 , 51, 290-302	115
676	Carbon quantum dots and applications in photocatalytic energy conversion. 2015 , 7, 8363-76	476
675	A simple one-step hydrothermal route towards water solubilization of carbon quantum dots from soya-nuggets for imaging applications. 2015 , 5, 87528-87534	33
674	Detection and imaging of fatty plaques in blood vessels using functionalized carbon dots. 2015 , 7, 9482-9488	11
673	Enhancement of the Carbon Dots/K ₂ S ₂ O ₈ Chemiluminescence System Induced by Triethylamine. 2015 , 87, 11167-70	28
672	Peroxynitrite and nitric oxide fluorescence sensing by ethylenediamine doped carbon dots. 2015 , 220, 1043-1049	24
671	A carbon dot-based fluorescence turn-on sensor for hydrogen peroxide with a photo-induced electron transfer mechanism. <i>Chemical Communications</i> , 2015 , 51, 15574-7	5.8 78
670	N-doped carbon dots derived from bovine serum albumin and formic acid with one- and two-photon fluorescence for live cell nuclear imaging. 2015 , 136, 141-9	33

669	Covalent conjugation of carbon dots with Rhodamine B and assessment of their photophysical properties. 2015 , 5, 77662-77669	30
668	Hydrophilic and blue fluorescent N-doped carbon dots from tartaric acid and various alkylol amines under microwave irradiation. 2015 , 7, 15915-23	62
667	Immobilizing water-soluble graphene quantum dots with gold nanoparticles for a low potential electrochemiluminescence immunosensor. 2015 , 7, 16366-71	59
666	Carbon nanodots modified cobalt phosphate as efficient electrocatalyst for water oxidation. 2015 , 1, 236-244	28
665	The up-converted photoluminescence and cell imaging of water-soluble carbon dots. 2015 , 638, 196-200	8
664	Fluorescent N-Doped Carbon Dots as in Vitro and in Vivo Nanothermometer. 2015 , 7, 27324-30	95
663	Recent advances in bioapplications of C-dots. 2015 , 85, 309-327	280
662	Amorphous carbon dots with high two-photon fluorescence for cellular imaging passivated by hyperbranched poly(amino amine). 2015 , 3, 700-706	67
661	Intriguing cysteine induced improvement of the emissive property of carbon dots with sensing applications. 2015 , 17, 2394-403	24
660	Unexpected Fluorescence of Polyols and PEGylated Nanoparticles Derived from Carbon Dot Formation. 2015 , 32, 467-475	18
659	C-dot sensitized Eu ³⁺ luminescence from Eu ³⁺ -doped LaF ₃ dot nanocomposites. 2015 , 39, 106-109	20
658	Photoluminescent carbon dot sensor for carboxylated multiwalled carbon nanotube detection in river water. 2015 , 207, 596-601	34
657	Adsorptive desulfurization using different passivated carbon nanoparticles by PEG-200. 2015 , 130, 214-223	19
656	Sustainable carbon materials. 2015 , 44, 250-90	826
655	Formation of fluorescent carbon nanodots from kitchen wastes and their application for detection of Fe(3.). 2015 , 30, 420-4	49
654	Mechanochromic luminescence of halide-substituted difluoroboron diketonate dyes. 2015 , 3, 352-363	106
653	Synthesis of biocompatible and highly photoluminescent nitrogen doped carbon dots from lime: analytical applications and optimization using response surface methodology. 2015 , 47, 325-32	87
652	Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg ²⁺ detection. 2015 , 437, 28-34	53

651	Preparation of carbon quantum dots based on starch and their spectral properties. 2015 , 30, 388-92	36
650	One step synthesis of Al/N co-doped carbon nanoparticles with enhanced photoluminescence. 2015 , 158, 1-5	19
649	Carbon quantum dots and their applications. 2015 , 44, 362-81	2967
648	Herbages-derived fluorescent carbon dots and CdTe/carbon ensembles for patterning. 2016 , 51, 8108-8115	9
647	Eu ³⁺ -doped ionogel-functionalized carbon dot monoliths with bright white photoluminescence. 2016 , 6, 72149-72154	7
646	Carbon Dots: Synthesis, Bioimaging, and Biosafety Assessment. 2016 , 429-486	3
645	Multifunctional carbon dots as efficient fluorescent nanotags for tracking cells through successive generations. 2016 , 4, 4862-4871	14
644	Synthesis of Semiconductor Nanocrystals, Focusing on Nontoxic and Earth-Abundant Materials. 2016 , 116, 10731-819	365
643	Synthetic Developments of Nontoxic Quantum Dots. 2016 , 17, 598-617	64
642	Interfacial modification layers based on carbon dots for efficient inverted polymer solar cells exceeding 10% power conversion efficiency. 2016 , 26, 216-223	64
641	A novel fluorescence enhanced route to detect copper(II) by click chemistry-catalyzed connection of Au@SiO ₂ and carbon dots. 2016 , 233, 426-430	29
640	Green and facile synthesis of nitrogen-doped carbon nanodots for multicolor cellular imaging and Co ²⁺ sensing in living cells. 2016 , 235, 179-187	56
639	Fluorescence turn-on sensing of ascorbic acid and alkaline phosphatase activity based on graphene quantum dots. 2016 , 235, 356-361	60
638	All-Carbon Nanosized Hybrid Materials: Fluorescent Carbon Dots Conjugated to Multiwalled Carbon Nanotubes. 2016 , 120, 8550-8558	13
637	The synthesis of Au@C@Pt core-double shell nanocomposite and its application in enzyme-free hydrogen peroxide sensing. 2016 , 378, 375-383	26
636	A facile method to prepare fluorescent carbon dots and their application in selective colorimetric sensing of silver ion through the formation of silver nanoparticles. 2016 , 177, 228-234	26
635	Direct photodissociation of toluene molecules to photoluminescent carbon dots under pulsed laser irradiation. 2016 , 105, 416-423	19
634	Kinetics of nitrogen-doped carbon dot formation via hydrothermal synthesis. 2016 , 40, 5555-5561	52

633	Solid phase reaction method for preparation of carbon dots and multi-purpose applications. 2016 , 234, 15-20	14
632	A hydrothermal route for synthesizing highly luminescent sulfur- and nitrogen-co-doped carbon dots as nanosensors for Hg ²⁺ . 2016 , 6, 86436-86442	19
631	Rapid solid-phase microwave synthesis of highly photoluminescent nitrogen-doped carbon dots for Fe(3+) detection and cellular bioimaging. 2016 , 27, 395706	45
630	Carbon dots-quinoline derivative nanocomposite: facile synthesis and application as a "turn-off" fluorescent chemosensor for detection of Cu ²⁺ ions in tap water. 2016 , 6, 87230-87236	16
629	N-Doped carbon dot with surface dominant non-linear optical properties. 2016 , 6, 95476-95482	17
628	Surfactant-free synthesis of metallic bismuth spheres by microwave-assisted solvothermal approach as a function of the power level. 2016 , 10, 394-404	3
627	The spectral heterogeneity and size distribution of the carbon dots derived from time-resolved fluorescence studies. 2016 , 18, 30086-30092	16
626	Effects of Substitution on Mechanochromic Luminescence and Aggregation-Induced Emission of Difluoroboron Diketonate Dyes. 2016 , 120, 22539-22548	55
625	Heteroatom-doped carbon dots: synthesis, characterization, properties, photoluminescence mechanism and biological applications. 2016 , 4, 7204-7219	291
624	A novel fluorescent carbon dots derived from tamarind. 2016 , 661, 179-184	50
623	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5'-triphosphate with unmodified gold nanoparticles. 2016 , 86, 978-984	61
622	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. 2016 , 4, 8146-8160	62
621	PEGylated Oxidized Alginate-DOX Prodrug Conjugate Nanoparticles Cross-Linked with Fluorescent Carbon Dots for Tumor Theranostics. 2016 , 2, 1641-1648	61
620	Soy flour-derived carbon dots: facile preparation, fluorescence enhancement, and sensitive Fe ³⁺ detection. 2016 , 18, 1	19
619	(Bio)electroanalytical Applications of Carbon Nanoparticles. 2016 , 28, 46-57	9
618	Photoluminescent nanoplatforms in biomedical applications. 2016 , 1, 194-225	16
617	Synthesis of nitrogen- and iron-containing carbon dots, and their application to colorimetric and fluorometric determination of dopamine. 2016 , 183, 2491-2500	59
616	Nitrogen-Doped Carbon Quantum Dot Stabilized Magnetic Iron Oxide Nanoprobe for Fluorescence, Magnetic Resonance, and Computed Tomography Triple-Modal In Vivo Bioimaging. 2016 , 26, 8694-8706	93

615	Carbon dots with tunable concentrations of trapped anti-oxidant as an efficient metal-free catalyst for electrochemical water oxidation. 2016 , 4, 14614-14624	30
614	Orbital hybridization mechanism for the enhanced photoluminescence in edge-functionalized sp ² carbon clusters. 2016 , 109, 418-427	6
613	Green synthesis of highly fluorescent carbon quantum dots from sugarcane bagasse pulp. 2016 , 390, 435-443	142
612	C-Dot Generated Bioactive Organosilica Nanospheres in Theranostics: Multicolor Luminescent and Photothermal Properties Combined with Drug Delivery Capacity. 2016 , 8, 24433-44	35
611	Influence of chemical states of doped nitrogen on photoluminescence intensity of hydrothermally synthesized carbon dots. 2016 , 180, 123-131	23
610	Optical Regulation of Carbon Nanodots by Chemical Functionalization. 2016 , 45, 854-856	3
609	Layer-by-Layer Assembly of Carbon Dots-Based Ultrathin Films with Enhanced Quantum Yield and Temperature Sensing Performance. 2016 , 28, 5426-5431	32
608	Fluorimetric evaluation of glutathione reductase activity and its inhibitors using carbon quantum dots. 2016 , 161, 769-774	23
607	Yellow-Emitting Carbon Nanodots and Their Flexible and Transparent Films for White LEDs. 2016 , 8, 33102-33111	32
606	Laser Ablated Carbon Nanodots for Light Emission. 2016 , 11, 424	68
605	Efficient and Stable Red Emissive Carbon Nanoparticles with a Hollow Sphere Structure for White Light-Emitting Diodes. 2016 , 8, 31863-31870	30
604	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. 2016 , 6, 19028	77
603	Three-minute synthesis of sp ² nanocrystalline carbon dots as non-toxic fluorescent platforms for intracellular delivery. 2016 , 8, 18630-18634	40
602	Hyaluronic acid functionalized nitrogen-doped carbon quantum dots for targeted specific bioimaging. 2016 , 6, 104979-104984	25
601	Fullerene-Structural Carbon-Based Dots from C ₆₀ Molecules and their Optical Properties. 2016 , 33, 916-923	5
600	Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots. 2016 , 128, 2147-2152	59
599	Carbon quantum dot-based nanoprobe for metal ion detection. 2016 , 4, 6927-6945	316
598	Photoluminescent Properties of Carbon Nanodots. 2016 , 239-256	2

597	Carbon Based Dots and Their Luminescent Properties and Analytical Applications. 2016 , 161-238	8
596	Modulating Mechanochromic Luminescence Quenching of Alkylated Iodo Difluoroboron Dibenzoylmethane Materials. 2016 , 120, 14289-14300	31
595	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. 2016 , 8, 14297-340	261
594	A unique "turn-on" fluorescence signalling strategy for highly specific detection of ascorbic acid using carbon dots as sensing probe. 2016 , 85, 844-852	92
593	Fluorescence characteristics of carbon nanoemitters derived from sucrose by green hydrothermal and microwave methods. 2016 , 169, 25-9	6
592	Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots. 2016 , 55, 2107-12	203
591	A biocompatible poly(N-vinylimidazole)-dot with both strong luminescence and good catalytic activity. 2016 , 6, 2141-2148	15
590	Highly photoluminescent pH-independent nitrogen-doped carbon dots for sensitive and selective sensing of p-nitrophenol. 2016 , 6, 15192-15200	53
589	Microwave synthesis of carbon dots with multi-response using denatured proteins as carbon source. 2016 , 6, 11711-11718	28
588	Luminescent colloidal carbon dots: optical properties and effects of doping [Invited]. 2016 , 24, A312-40	186
587	Eco-friendly and rapid microwave synthesis of green fluorescent graphitic carbon nitride quantum dots for vitro bioimaging. 2016 , 226, 506-511	142
586	Carbon dots with aggregation induced emission enhancement for visual permittivity detection. <i>Chemical Communications</i> , 2016 , 52, 2063-6	5.8 55
585	Carbon dots on based folic acid coated with PAMAM dendrimer as platform for Pt(IV) detection. 2016 , 465, 165-73	42
584	Functionalized carbon nanoparticles: Syntheses and applications in optical bioimaging and energy conversion. 2016 , 320-321, 66-81	100
583	Carbon dots doped with nitrogen and sulfur and loaded with copper(II) as a Turn-on fluorescent probe for cystein, glutathione and homocysteine. 2016 , 183, 1409-1416	96
582	Synthesis and Characterisation of Fluorescent Carbon Nanodots Produced in Ionic Liquids by Laser Ablation. 2016 , 22, 138-43	64
581	A review of carbon dots in biological applications. 2016 , 51, 4728-4738	217
580	Optimization of dispersed carbon nanoparticles synthesis for rapid desulfurization of liquid fuel. 2016 , 13, 146-154	4

579	Microwave-assisted ultrafast and facile synthesis of fluorescent carbon nanoparticles from a single precursor: preparation, characterization and their application for the highly selective detection of explosive picric acid. 2016 , 4, 4161-4171	126
578	Highly efficient electrochemiluminescence based on pyrazolecarboxylic metal organic framework. 2016 , 45, 5081-91	17
577	Highly selective detection of 2,4,6-trinitrophenol by using newly developed terbium-doped blue carbon dots. 2016 , 141, 2676-81	109
576	Economic and Ecofriendly Synthesis of Biocompatible Heteroatom Doped Carbon Nanodots for Graphene Oxide Assay and Live Cell Imaging. 2016 , 4, 1463-1473	10
575	Carbon quantum dots directly generated from electrochemical oxidation of graphite electrodes in alkaline alcohols and the applications for specific ferric ion detection and cell imaging. 2016 , 141, 2657-64	134
574	Facile and green approach to prepare fluorescent carbon dots: Emergent nanomaterial for cell imaging and detection of vitamin B2. 2016 , 468, 276-283	52
573	Electrochemical Methods to Study Photoluminescent Carbon Nanodots: Preparation, Photoluminescence Mechanism and Sensing. 2016 , 8, 28372-28382	33
572	A review on fluorescent inorganic nanoparticles for optical sensing applications. 2016 , 6, 21624-21661	102
571	Carbogenic nanodots derived from organo-templated zeolites with modulated full-color luminescence. 2016 , 7, 3564-3568	86
570	Multicolour fluorescent carbon nanoparticle probes for live cell imaging and dual palladium and mercury sensors. 2016 , 4, 2466-2476	80
569	Highly Photoluminescent Molybdenum Oxide Quantum Dots: One-Pot Synthesis and Application in 2,4,6-Trinitrotoluene Determination. 2016 , 8, 8184-91	94
568	Sustainable Life Cycles of Natural-Precursor-Derived Nanocarbons. 2016 , 116, 163-214	136
567	Highly photoluminescent MoO(x) quantum dots: Facile synthesis and application in off-on Pi sensing in lake water samples. 2016 , 906, 148-155	31
566	Fluorescent carbon dots derived from lactose for assaying folic acid. 2016 , 59, 487-492	24
565	Two-step synthesis of highly emissive C/ZnO hybridized quantum dots with a broad visible photoluminescence. 2016 , 364, 710-717	19
564	Carbon nanoparticles/soy protein isolate bio-films with excellent mechanical and water barrier properties. 2016 , 82, 133-140	69
563	Recent advances in carbon-based dots for electroanalysis. 2016 , 141, 2619-28	18
562	Facile one-step sonochemical synthesis of ultrafine and stable fluorescent C-dots. 2016 , 28, 367-375	53

561	Fluorescence quenchometric method for determination of ferric ion using boron-doped carbon dots. 2016 , 183, 273-279	106
560	One-step hydrothermal synthesis of photoluminescent carbon nitride dots derived from ionic liquids. 2016 , 40, 320-324	21
559	Functionalized Chitosan: A Quantum Dot-Based Approach for Regenerative Medicine. 2016 , 297-349	1
558	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. 2017 , 6, 259-267	74
557	Hydrothermal synthesis and photoluminescent mechanistic investigation of highly fluorescent nitrogen doped carbon dots from amino acids. 2017 , 89, 26-32	45
556	Applications of Electrogenerated Chemiluminescence in Analytical Chemistry. 2017 , 257-291	6
555	Sulfur and nitrogen co-doped carbon dots sensors for nitric oxide fluorescence quantification. 2017 , 960, 117-122	34
554	Fluorescent Carbon Dot as Nanosensor for Sensitive and Selective Detection of Cefixime Based on Inner Filter Effect. 2017 , 27, 921-927	27
553	Review on Carbon Dots and Their Applications. 2017 , 45, 139-150	193
552	Amino Nitrogen Quantum Dots-Based Nanoprobe for Fluorescence Detection and Imaging of Cysteine in Biological Samples. 2017 , 89, 4238-4245	60
551	Fabrication of fluorescent carbon dots-linked isophorone diisocyanate and β -cyclodextrin for detection of chromium ions. 2017 , 179, 163-170	21
550	Recent Advances Based on Nanomaterials as Electrochemiluminescence Probes for the Fabrication of Sensors. 2017 , 4, 1639-1650	72
549	Gel-like Carbon Dots: Characterization and their Potential Applications. 2017 , 18, 890-897	35
548	A green one-pot synthesis of nitrogen and sulfur co-doped carbon quantum dots for sensitive and selective detection of cephalexin. 2017 , 95, 641-648	10
547	Highly fluorescent cotton fiber based on luminescent carbon nanoparticles via a two-step hydrothermal synthesis method. 2017 , 24, 1669-1677	14
546	Fluorescent carbon dots and their sensing applications. 2017 , 89, 163-180	409
545	One-Pot Large-Scale Synthesis of Carbon Quantum Dots: Efficient Cathode Interlayers for Polymer Solar Cells. 2017 , 9, 14953-14959	32
544	One-step hydrothermal synthesis of photoluminescent carbon nanodots with selective antibacterial activity against <i>Porphyromonas gingivalis</i> . 2017 , 9, 7135-7142	135

543	Green approach to photoluminescent carbon dots for imaging of gram-negative bacteria <i>Escherichia coli</i> . 2017 , 28, 195501	77
542	Thermo-responsive microgels based on encapsulated carbon quantum dots. 2017 , 41, 4835-4842	13
541	Controlling solid-state optical properties of stimuli responsive dimethylamino-substituted dibenzoylmethane materials. 2017 , 1, 1804-1817	19
540	Influence of hydrophilic carbon dots on polyamide thin film nanocomposite reverse osmosis membranes. 2017 , 537, 42-53	94
539	Graphene/Carbon Dot Hybrid Thin Films Prepared by a Modified Langmuir-Schaefer Method. 2017 , 2, 2090-2099	26
538	Highly fluorescent carbon dots from peanut shells as potential probes for copper ion: The optimization and analysis of the synthetic process. 2017 , 5, 1-10	55
537	Camera Method for Monitoring a Mechanochromic Luminescent β -Diketone Dye with Rapid Recovery. 2017 , 9, 17603-17612	30
536	Synthesis and formation mechanism of s-doped carbon dots from low-molecule-weight organics. 2017 , 190, 108-114	22
535	Preparation of carbon dots/TiO ₂ electrodes and their photoelectrochemical activities for water splitting. 2017 , 42, 12122-12132	24
534	Rapid Exfoliation and Surface Tailoring of Perovskite Nanosheets via Microwave-Assisted Reactions. 2017 , 3, 538-550	15
533	One-step extraction of highly fluorescent carbon quantum dots by a physical method from carbon black. 2017 , 41, 5267-5270	12
532	A Photochemical Avenue to Photoluminescent N-Dots and their Upconversion Cell Imaging. 2017 , 7, 1793	4
531	Photoluminescence of carbon dots and their applications in Hela cell imaging and Fe ³⁺ ion detection. 2017 , 52, 9979-9989	20
530	Enhanced Electrochemiluminescence Behavior of Gold-Silver Bimetallic Nanoclusters and Its Sensing Application for Mercury(II). 2017 , 89, 7788-7794	94
529	Synthesis, characterization and cells and tissues imaging of carbon quantum dots. 2017 , 72, 15-19	34
528	One-step synthesis of orange luminescent carbon dots for Ag ⁺ sensing and cell imaging. 2017 , 190, 188-193	24
527	One pot synthesis of C-dots and study on its interaction with nano ZnO through fluorescence quenching. 2017 , 190, 328-334	15
526	Carbon quantum dots/block copolymer ensembles for metal-ion sensing and bioimaging. 2017 , 5, 5397-5402	8

525	Carbon dots: Biomacromolecule interaction, bioimaging and nanomedicine. 2017 , 343, 256-277	205
524	Carbon dots: materials, synthesis, properties and approaches to long-wavelength and multicolor emission. 2017 , 5, 3794-3809	195
523	N-doped multi-fluorescent carbon dots for turn off-on silver-biothiol dual sensing and mammalian cell imaging application. 2017 , 248, 481-492	85
522	Preparation of highly luminescent nitrogen and sulfur co-doped carbon nanoparticles for iron (III) ions detection and cell imaging. 2017 , 28, 1385-1390	11
521	Mesoporous silica particles as a lipophilic drug vehicle investigated by fluorescence lifetime imaging. 2017 , 5, 3201-3211	13
520	Lasing behavior of surface functionalized carbon quantum dot/RhB composites. 2017 , 9, 5049-5054	21
519	The effect of oxygen on the microwave-assisted synthesis of carbon quantum dots from polyethylene glycol. 2017 , 7, 16637-16643	18
518	Preparation and Characterization of Water-soluble Carbon Quantum Dots/Mesoporous Silica with High Fluorescence Intensity. 2017 , 46, 895-898	2
517	Boron Precursor-Dependent Evolution of Differently Emitting Carbon Dots. 2017 , 33, 573-584	36
516	Facile heat reflux synthesis of blue luminescent carbon dots as optical nanoprobe for cellular imaging. 2017 , 41, 702-708	4
515	Recent progress in carbon dot-metal based nanohybrids for photochemical and electrochemical applications. 2017 , 5, 1826-1859	96
514	Recent progress in carbon quantum dots: synthesis, properties and applications in photocatalysis. 2017 , 5, 3717-3734	604
513	Nanomaterial-Based Drug Delivery Carriers for Cancer Therapy. 2017 , 15-54	1
512	Modulation effect of carbon quantum dots in organic electroluminescent devices. 2017 , 51, 314-321	4
511	Optically active blue-emitting carbon dots to specifically target the Golgi apparatus. 2017 , 7, 49931-49936	15
510	Strongly tricolor-emitting carbon dots synthesized by a combined aging-annealing route and their bio-application. 2017 , 7, 50802-50811	5
509	Preparation of Carbon Dots and Their Application in Food Analysis as Signal Probe. 2017 , 45, 1571-1581	23
508	High color rendering index trichromatic white and red LEDs prepared from silane-functionalized carbon dots. 2017 , 5, 9629-9637	49

507	Flame deposition method for carbon nanoparticles employing green precursors and its composite with Au nanoparticles for photocatalytic degradation of methylene blue. 2017 , 146, 633-640	6
506	Fluorescent carbon dots: rational synthesis, tunable optical properties and analytical applications. 2017 , 7, 40973-40989	120
505	2D Arrangement of Polymer Microsphere Photonic Cavities Doped with Novel N-Rich Carbon Quantum Dots Display Enhanced One- and Two-Photon Luminescence Driven by Optical Resonances. 2017 , 5, 1700695	16
504	A fluorescence-electrochemical study of carbon nanodots (CNDs) in bio- and photoelectronic applications and energy gap investigation. 2017 , 19, 20101-20109	40
503	Novel Fluorescent Microemulsion: Probing Properties, Investigating Mechanism, and Unveiling Potential Application. 2017 , 9, 25747-25754	11
502	Microwave-assisted hydrothermal synthesis of solid-state carbon dots with intensive emission for white light-emitting devices. 2017 , 5, 8105-8111	67
501	Electrochemical Study of DPPH Radical Scavenging for Evaluating the Antioxidant Capacity of Carbon Nanodots. 2017 , 121, 18635-18642	28
500	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. 2017 , 5, 1700257	51
499	N-Doped carbon dots: green and efficient synthesis on a large-scale and their application in fluorescent pH sensing. 2017 , 41, 10607-10612	45
498	Electrochemical Method To Prepare Graphene Quantum Dots and Graphene Oxide Quantum Dots. 2017 , 2, 8343-8353	127
497	Carbon nanospecies affecting amyloid formation. 2017 , 7, 53887-53898	6
496	Oxygen Containing Functional Groups Dominate the Electrochemiluminescence of Pristine Carbon Dots. 2017 , 121, 27546-27554	21
495	Ethylenediamine functionalized carbon nanoparticles: synthesis, characterization, and evaluation for cadmium removal from water. 2017 , 7, 34226-34235	11
494	A novel molecularly imprinted electrochemical sensor modified with carbon dots, chitosan, gold nanoparticles for the determination of patulin. 2017 , 98, 299-304	141
493	Preparation of Poly(styrene)-b-poly(acrylic acid)-Coupled Carbon Dots and Their Applications. 2017 , 9, 24169-24178	14
492	Host-guest carbon dots as high-performance fluorescence probes. 2017 , 5, 6328-6335	23
491	Functional carbon nanodots for multiscale imaging and therapy. 2017 , 9, e1436	33
490	Carbon dots coated with vitamin B12 as selective ratiometric nanosensor for phenolic carbofuran. 2017 , 239, 553-561	38

489	Gas assisted method synthesis nitrogen-doped carbon quantum dots and Hg (II) sensing. 2017 , 38, 1507-1513	10
488	Synthesis of hydrophilic and hydrophobic carbon quantum dots from waste of wine fermentation. 2017 , 4, 170900	28
487	Electrochemiluminescent immunosensing. 2017 , 171-206	5
486	Fluorescence Determination of Glutathione Using Tissue Paper-derived Carbon Dots as Fluorophores. 2017 , 33, 281-285	28
485	Hydrothermal Transformations of Ascorbic Acid. 2017 , 87, 2858-2864	6
484	Fluorescent carbon dots from mono- and polysaccharides: synthesis, properties and applications. 2017 , 13, 675-693	54
483	Characterization and Analytical Separation of Fluorescent Carbon Nanodots. 2017 , 2017, 1-23	17
482	Green synthesis of fluorescent carbon dots from Hongcaitai for selective detection of hypochlorite and mercuric ions and cell imaging. 2018 , 263, 426-435	76
481	Photoluminescent C-dots: An overview on the recent development in the synthesis, physiochemical properties and potential applications. 2018 , 748, 818-853	49
480	One-pot synthesis of N-doped carbon dots by pyrolyzing the gel composed of ethanolamine and 1-carboxyethyl-3-methylimidazolium chloride and their selective fluorescence sensing for Cr(vi) ions. 2018 , 143, 1906-1915	38
479	Green and Cost Effective Synthesis of Fluorescent Carbon Quantum Dots for Dopamine Detection. 2018 , 28, 573-579	38
478	Microwave-assisted synthesis of water-soluble Eu ³⁺ hybrid carbon dots with enhanced fluorescence for the sensing of Hg ²⁺ ions and imaging of fungal cells. 2018 , 42, 6125-6133	40
477	Green synthesis of fluorescent carbon quantum dots for the detection of mercury(II) and glutathione. 2018 , 42, 5814-5821	68
476	Facile synthesis and versatile applications of amorphous carbon dot. 2018 , 5, 10077-10083	8
475	Self-assembly facilitated and visible light-driven generation of carbon dots. <i>Chemical Communications</i> , 2018 , 54, 5960-5963	5.8 7
474	Templated microwave synthesis of luminescent carbon nanofibers.. 2018 , 8, 12907-12917	11
473	Green synthesis of amphiphilic carbon dots from organic solvents: application in fluorescent polymer composites and bio-imaging.. 2018 , 8, 12556-12561	17
472	A photoluminescence "switch-on" nanosensor composed of nitrogen and sulphur co-doped carbon dots and gold nanoparticles for discriminative detection of glutathione. 2018 , 143, 2083-2089	21

471	Carbon dots: emerging theranostic nanoarchitectures. 2018 , 23, 1219-1232	100
470	A highly selective fluorescent enhancement sensor for Al ³⁺ based nitrogen-doped carbon dots catalyzed by Fe ³⁺ . 2018 , 262, 720-732	30
469	Folic acid-conjugated green luminescent carbon dots as a nanoprobe for identifying folate receptor-positive cancer cells. 2018 , 183, 39-47	71
468	Excitation dependent emission combined with different quenching manners supports carbon dots to achieve multi-mode sensing. 2018 , 263, 1-9	31
467	Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots Langmuir-Blodgett Thin Films. 2018 , 6, 4154-4163	59
466	Hexamethylenetetramine: an effective and universal nitrogen-doping reagent to enhance the photoluminescence of carbon nanodots. 2018 , 42, 3519-3525	4
465	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. 2018 , 6, 1149-1178	57
464	Carbon dots-modified chitosan based electrochemical biosensing platform for detection of vitamin D. 2018 , 109, 687-697	56
463	Generation of a carbon dots/ammonium persulfate redox initiator couple for free radical frontal polymerization. 2018 , 9, 420-427	13
462	Concentration dependent variation of thermal diffusivity in highly fluorescent carbon dots using dual beam thermal lens technique. 2018 , 126, 137-142	21
461	Highly selective and sensitive fluorescence sensing of nanomolar Zn ions in aqueous medium using Calix[4]arene passivated Carbon Quantum Dots based on fluorescence enhancement: Real-time monitoring and intracellular investigation. 2018 , 1009, 1-11	16
460	Carbon Dots: Bottom-Up Syntheses, Properties, and Light-Harvesting Applications. 2018 , 13, 586-598	71
459	Facile synthesis of blue-emitting carbon dots@mesoporous silica composite spheres. 2018 , 76, 100-104	17
458	Synthesis and characterization of high efficient photoluminescent sunlight driven photocatalyst of N-Carbon Quantum Dots. 2018 , 201, 265-274	42
457	Dispersibility of carbon dots in aqueous and/or organic solvents. <i>Chemical Communications</i> , 2018 , 54, 5401-5406	5.8 59
456	Structure and solvents effects on the optical properties of sugar-derived carbon nanodots. 2018 , 8, 6559	81
455	A Graphene Quantum Dots-Enzyme Hybrid System for the Fluorescence Assay of Alkaline Phosphatase Activity and Inhibitor Screening. 2018 , 34, 131-136	6
454	Inhomogeneous Photoluminescence Characteristic in Carbon Nanodots and Electrophotoluminescence Measurements. 2018 , 122, 6463-6474	3

453	Inverse Pickering emulsions stabilized by carbon quantum dots: Influencing factors and their application as templates. 2018 , 345, 209-220	13
452	Synthesis of green fluorescent carbon quantum dots using waste polyolefins residue for Cu ²⁺ ion sensing and live cell imaging. 2018 , 254, 197-205	80
451	Carbon nanodots based biosensors for gene mutation detection. 2018 , 256, 226-233	53
450	Simple and selective determination of 6-thioguanine by using polyethylenimine (PEI) functionalized carbon dots. 2018 , 178, 879-885	25
449	Construction of a novel "Off-On" fluorescence sensor for highly selective sensing of selenite based on europium ions induced crosslinking of nitrogen-doped carbon dots. 2018 , 194, 768-777	22
448	Synthesis of Luminescent N-Doped Carbon Dots by Hydrothermal Treatment. 2018 , 255, 1700222	10
447	Synthesis of carbon-based quantum dots from starch extracts: Optical investigations. 2018 , 33, 260-266	19
446	Understanding and manipulating luminescence in carbon nanodots. 2018 , 126, 58-64	24
445	A specific nanoprobe for cysteine based on nitrogen-rich fluorescent quantum dots combined with Cu. 2018 , 100, 79-84	30
444	Electrochemiluminescent resonance energy transfer of polymer dots for aptasensing. 2018 , 100, 28-34	46
443	Carbon dots with red-shifted photoluminescence by fluorine doping for optical bio-imaging. 2018 , 128, 78-85	100
442	Exploring Tetrathiafulvalene-Carbon Nanodot Conjugates in Charge Transfer Reactions. 2018 , 57, 1001-1005	34
441	Exploring Tetrathiafulvalene-Carbon Nanodot Conjugates in Charge Transfer Reactions. 2018 , 130, 1013-1017	6
440	Fluorescent carbon quantum dots synthesized by chemical vapor deposition: An alternative candidate for electron acceptor in polymer solar cells. 2018 , 75, 166-173	29
439	Green anhydrous synthesis of hydrophilic carbon dots on large-scale and their application for broad fluorescent pH sensing. 2018 , 255, 572-579	45
438	Biocompatible Carbon Nanodots for Functional Imaging and Cancer Therapy. 2018 , 7, 31-45	1
437	A sensitive fluorescent sensor for the detection of trace water in organic solvents based on carbon quantum dots with yellow fluorescence.. 2018 , 8, 37028-37034	32
436	S,N-Co-doped carbon nanoparticles with high quantum yield for metal ion detection, IMP logic gates and bioimaging applications. 2018 , 42, 20180-20189	4

435	Selective and sensitive detection of cinnamaldehyde by nitrogen and sulphur co-doped carbon dots: a detailed systematic study.. 2018 , 8, 42361-42373	8
434	Facile way to fabricate high quality white LED with yellow graphene quantum dots. 2018 ,	
433	Rapid and green synthesis of fluorescent carbon dots from starch for white light-emitting diodes. 2018 , 33, 276-288	33
432	Nanocarbon powder for latent fingerprint development: a green chemistry approach. 2018 , 8,	5
431	Preparation of N-doped carbon dots based on starch and their application in white LED. 2018 , 86, 530-536	19
430	Recent Advances in Carbon Dots for Bioanalysis and the Future Perspectives. 2018 , 203-264	1
429	Synthesis of Nitrogen-Doped Lignin/DES Carbon Quantum Dots as a Fluorescent Probe for the Detection of Fe Ions. 2018 , 10,	21
428	Detachable Polyzwitterion-Coated Ternary Nanoparticles Based on Peptide Dendritic Carbon Dots for Efficient Drug Delivery in Cancer Therapy. 2018 , 10, 43923-43935	34
427	References. 2018 , 241-263	
426	Carbon Nanodots: A Review From the Current Understanding of the Fundamental Photophysics to the Full Control of the Optical Response. 2018 , 4, 67	94
425	Green Synthesis of Multifunctional Carbon Nanodots and Their Applications as a Smart Nanothermometer and Cr(VI) Ions Sensor. 2018 , 13, 1850147	7
424	Molecular imaging with nanoparticles: the dwarf actors revisited 10 years later. 2018 , 150, 733-794	8
423	Investigation of the Microstructures of Graphene Quantum Dots (GQDs) by Surface-Enhanced Raman Spectroscopy. 2018 , 8,	50
422	Highly Biocompatible, Fluorescence, and Zwitterionic Carbon Dots as a Novel Approach for Bioimaging Applications in Cancerous Cells. 2018 , 10, 37835-37845	41
421	Hydrothermal Synthesis of Luminescent Carbon Dots from Glucose and Birch Bark Soot. 2018 , 59, 780-785	6
420	Recognition of Latent Fingerprints and Ink-Free Printing Derived from Interfacial Segregation of Carbon Dots. 2018 , 10, 39205-39213	31
419	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. 2018 , 3, 13454-13466	61
418	Carbon-Based, Metal-Free Catalysts for Photocatalysis. 2018 , 457-500	0

417	Exploration of nano carbons in relevance to plant systems. 2018 , 42, 16411-16427	26
416	A label-free and ultrasensitive electrochemical aptasensor for lead(ii) using a N,P dual-doped carbon dot-chitosan composite as a signal-enhancing platform and thionine as a signaling molecule. 2018 , 143, 4764-4773	13
415	Facile, rapid synthesis of N,P-dual-doped carbon dots as a label-free multifunctional nanosensor for Mn(VII) detection, temperature sensing and cellular imaging. 2018 , 277, 492-501	43
414	Co-reductive fabrication of carbon nanodots with high quantum yield for bioimaging of bacteria. 2018 , 9, 137-145	10
413	Red, green, and blue fluorescent folate-receptor-targeting carbon dots for cervical cancer cellular and tissue imaging. 2018 , 93, 1054-1063	20
412	Green synthesis of N, S co-doped carbon quantum dots from triflic acid treated palm shell waste and their application in nitrophenol sensing. 2018 , 108, 250-254	33
411	Photoluminescent Carbon Dots: A Mixture of Heterogeneous Fractions. 2018 , 19, 2589-2597	41
410	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. 2018 , 2, 1800050	108
409	Full-color tunable photoluminescent carbon dots based on oil/water interfacial synthesis and their applications.. 2018 , 8, 24002-24012	10
408	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. 2018 , 1, 3682-3692	51
407	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects. 2018 , 170, 347-354	62
406	Substantial Enhancement of the Antioxidant Capacity of an α -linolenic Acid Loaded Microemulsion: Chemical Manipulation of the Oil-Water Interface by Carbon Dots and Its Potential Application. 2018 , 66, 6917-6925	7
405	Loading controlled magnetic carbon dots for microwave-assisted solid-phase extraction: Preparation, extraction evaluation and applications in environmental aqueous samples. 2018 , 41, 3622-3630	12
404	Synthesis of Nanoparticles. 2018 , 392-429	8
403	A one-step ultrasonic irradiation assisted strategy for the preparation of polymer-functionalized carbon quantum dots and their biological imaging. 2018 , 532, 767-773	36
402	Na ⁺ functionalized carbon quantum dot incorporated thin-film nanocomposite membranes for selenium and arsenic removal. 2018 , 564, 483-491	62
401	Phosphorus-doped carbon dots for sensing both Au (III) and L-methionine. 2018 , 365, 178-184	11
400	Capacitively Coupled Plasma Discharge of Ionic Liquid Solutions to Synthesize Carbon Dots as Fluorescent Sensors. 2018 , 8,	10

399	Carbon Dots from Sugars and Ascorbic Acid: Role of the Precursors on Morphology, Properties, Toxicity, and Drug Uptake. 2018 , 9, 832-837	56
398	Novel properties and applications of carbon nanodots. 2018 , 3, 565-597	188
397	Surface functionalisation significantly changes the physical and electronic properties of carbon nano-dots. 2018 , 10, 13908-13912	19
396	Phosphorus-doped hollow carbon sphere derived from phytic acid for superior sodium-ion batteries. 2018 , 33, 748-753	3
395	Smart Fluorescent Hydrogel Glucose Biosensing Microdroplets with Dual-Mode Fluorescence Quenching and Size Reduction. 2018 , 10, 30172-30179	41
394	Practical Three-Minute Synthesis of Acid-Coated Fluorescent Carbon Dots with Tuneable Core Structure. 2018 , 8, 12234	31
393	Electrochemically Exfoliated Carbon Quantum Dots Modified Electrodes for Detection of Dopamine Neurotransmitter. 2018 , 165, G3112-G3119	55
392	Multifunctional carbon dot for lifetime thermal sensing, nucleolus imaging and antialgal activity. 2018 , 6, 5708-5717	20
391	Color Tuning of Mechanochromic Luminescent β -Diketones via Boron Coordination and Donor-Acceptor Effects. 2018 , 122, 19090-19099	26
390	Carbon Quantum Dots for Bioimaging. 2018 ,	7
389	Eco-friendly synthesis of cuprizone-functionalized luminescent carbon dots and application as a sensor for the determination of copper(II) in wastewater. 2018 , 10, 4570-4578	7
388	Assembling of Sulfur Quantum Dots in Fission of Sublimed Sulfur. 2018 , 140, 7878-7884	90
387	The enhancement of photocatalytic performance of SrTiO nanoparticles combining with carbon quantum dots.. 2018 , 8, 20157-20165	9
386	A facile synthesis of self-doped carbon dots from 2-aminoterephthalic acid and their applications. 2019 , 20, 100599	1
385	Ultrafast spectroscopic investigation on fluorescent carbon nanodots: the role of passivation. 2019 , 21, 16459-16467	13
384	Microwave assisted green synthesis of Zwitterionic photoluminescent N-doped carbon dots: An efficient β n-off β chemosensor for tracer Cr(+6) considering the inner filter effect and nano drug-delivery vector. 2019 , 579, 123604	43
383	Electrochemical synthesis of molecularly imprinted poly(p-aminobenzene sulphonic acid) on carbon nanodots coated pencil graphite electrode for selective determination of folic acid. 2019 , 854, 113518	11
382	A Mini Review on Carbon Quantum Dots: Preparation, Properties, and Electrocatalytic Application. 2019 , 7, 671	173

381	Supercooled Liquid β -Diketones with Mechanoresponsive Emission. 2019 , 123, 25788-25800	12
380	Optical properties comparison of carbon nanodots synthesized from commercial granulated sugar using hydrothermal method and microwave. 2019 , 6, 105041	4
379	Evolution and Synthesis of Carbon Dots: From Carbon Dots to Carbonized Polymer Dots. 2019 , 6, 1901316	349
378	Effects of Gas Pressure on the Size Distribution and Structure of Carbon Nanoparticles Using Ar + CH ₄ Multi-Hollow Discharged Plasma Chemical Vapor Deposition . 2019 , 14, 4406115-4406115	4
377	Excitons in Carbonic Nanostructures. 2019 , 5, 71	26
376	Small molecules derived carbon dots: synthesis and applications in sensing, catalysis, imaging, and biomedicine. 2019 , 17, 92	165
375	Highly selective and sensitive detection of amaranth by using carbon dots-based nanosensor.. 2019 , 9, 26315-26320	13
374	Nitrogen doped fluorescent carbon quantum dots for on-off-on detection of Hg ²⁺ and glutathione in aqueous medium: Live cell imaging and IMPLICATION logic gate operation. 2019 , 384, 112042	28
373	Facile and green synthesis of amino-functionalized carbon nanodots for biomedical applications. 2019 , 12, 1950062	1
372	Nitrogen and Sulfur Doped Carbon Dots from Amino Acids for Potential Biomedical Applications. 2019 , 29, 1191-1200	37
371	Biomolecule-derived quantum dots for sustainable optoelectronics. 2019 , 1, 913-936	22
370	Fluorescence response from the surface states of nitrogen-doped carbon nanodots: evidence of a heterogeneous population of molecular-sized fluorophores. 2019 , 18, 54-63	2
369	Microwave-assisted synthesis of polyamine-functionalized carbon dots from xylan and their use for the detection of tannic acid. 2019 , 213, 301-308	25
368	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. 2019 , 4, 388-395	50
367	Effects of nitrogen-doping on the photophysical properties of carbon dots. 2019 , 7, 853-862	64
366	Solvent-free growth of carbon dots by sputter-plasma assisted chemical vapour deposition over large areas. 2019 , 146, 28-35	8
365	Electrochemiluminescent functional nucleic acids-based sensors for food analysis. 2019 , 34, 308-315	10
364	Fluorescent Carbon Particles Formed from Concentrated Glucose Solutions. 2019 , 4, 67-72	0

363	Evaluating the Toxic Impacts of Cadmium Selenide Nanoparticles on the Aquatic Plant Lemna minor. 2019 , 24,	21
362	Fluorescent Carbon Dots from Nerium oleander: Effects of Physical Conditions and the Extract Types. 2019 , 29, 853-864	4
361	Evaluation of the physical properties of fluorescent carbon nanodots synthesized using Nerium oleander extracts by microwave-assisted synthesis methods. 2019 , 8, 2721-2731	7
360	Carbon-based quantum particles: an electroanalytical and biomedical perspective. 2019 , 48, 4281-4316	119
359	Carbon Dots, Unconventional Preparation Strategies, and Applications Beyond Photoluminescence. 2019 , 15, e1901803	71
358	Cadmium-free quantum dot-based theranostics. 2019 , 118, 386-400	29
357	Far-Red to Near-Infrared Carbon Dots: Preparation and Applications in Biotechnology. 2019 , 15, e1901507	103
356	Dual-interface modification effect of Carbon Quantum Dots on the performance of Polymer Solar Cells. 2019 , 30, 11063-11069	2
355	The synthesis and characterization of carbon dots and their application in dye sensitized solar cell. 2019 , 44, 14580-14587	32
354	Quantum Confinement Effect in the Absorption Spectra of Graphene Quantum Dots. 2019 , 4, 205-210	2
353	Recent Advancements in Doped/Co-Doped Carbon Quantum Dots for Multi-Potential Applications. 2019 , 5, 24	27
352	An efficient and stable narrow bandgap carbon dot-brookite composite over other CD-TiO ₂ polymorphs in rhodamine B degradation under LED light. 2019 , 45, 14173-14181	10
351	Chemical structure and in vitro cellular uptake of luminescent carbon quantum dots prepared by solvothermal and microwave assisted techniques. 2019 , 549, 150-161	16
350	Quantum Dot Donor-Polymer Acceptor Architecture for a FRET-Enabled Solar Cell. 2019 , 11, 18395-18403	6
349	Laser wavelength modulated pulsed laser ablation for selective and efficient production of graphene quantum dots.. 2019 , 9, 13658-13663	15
348	Multimodal Carbon Dots as Biosensors. 2019 , 377-400	4
347	Synthesis of highly fluorescent nitrogen-rich carbon quantum dots and their application for the turn-off detection of cobalt (II). 2019 , 92, 311-318	22
346	Green Preparation of Fluorescent Carbon Quantum Dots from Cyanobacteria for Biological Imaging. 2019 , 11,	49

345	Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. 2019 , 7, 7833-7843	81
344	One-step hydrothermal synthesis and optical properties of self-quenching-resistant carbon dots towards fluorescent ink and as nanosensors for Fe detection.. 2019 , 9, 8290-8299	39
343	Design and fabrication of carbon dots for energy conversion and storage. 2019 , 48, 2315-2337	363
342	Polymer/carbon-based quantum dot nanocomposite: forthcoming materials for technical application. 2019 , 56, 341-356	15
341	Aqueous Synthesis of Multi-Carbon Dot Cross-Linked Polyethyleneimine Particles with Enhanced Photoluminescent Properties. 2019 , 40, e1800869	5
340	Synthesis of fluorescent carbon quantum dots from aqua mesophase pitch and their photocatalytic degradation activity of organic dyes. 2019 , 35, 1515-1522	45
339	Spectroscopic studies to investigate the effect of different plasma parameters on the geometrical and electronic structure of graphene. 2019 , 115, 433-440	2
338	Functional nanomaterials to augment photosynthesis: evidence and considerations for their responsible use in agricultural applications. 2019 , 9, 20180048	35
337	Novel Nanomaterials for the Fabrication of Electrochemiluminescent Sensors. 2019 , 189-214	1
336	Progress in microwave-assisted synthesis of quantum dots (graphene/carbon/semiconducting) for bioapplications: a review. 2019 , 12, 282-314	85
335	One pot hydrothermal synthesis of fluorescent NP-carbon dots derived from Dunaliella salina biomass and its application in on-off sensing of Hg (II), Cr (VI) and live cell imaging. 2019 , 376, 63-72	46
334	Enhanced fluorescence of nano polyethylene glycol derived from the oxidation. 2019 , 209, 404-410	4
333	Use of carbon quantum dots and fluorescein isothiocyanate in developing an improved competitive fluoroimmunoassay for detecting polybrominated diphenyl ether. 2019 , 16, 1641-1650	3
332	Eco-Friendly Colloidal Quantum Dot-Based Luminescent Solar Concentrators. 2019 , 6, 1801967	65
331	Preparation of CQDs with hydroxyl function for Fe ³⁺ detection. 2019 , 14, 440-444	4
330	Microwave Assisted Synthesis and Optical Properties of Highly Fluorescent N-Doped Carbon Dots. 2019 , 31, 2897-2902	
329	Detection of Ascorbic Acid Using Green Synthesized Carbon Quantum Dots. 2019 , 2019, 1-10	9
328	Synthesis and energy structure of optical transitions of the nitrogen and sulfur co-doped carbon dots. 2019 , 1410, 012020	

327	pH-Dependent photoluminescence "switch-on" nanosensors composed of silver nanoparticles and nitrogen and sulphur co-doped carbon dots for discriminative detection of biothiols. 2019 , 144, 7057-7063	6
326	Synthesis of novel cationic carbon dots and application to quantitative detection of K ⁺ in human serum samples. 2019 , 43, 17937-17940	7
325	Pick your precursor! Tailoring the size and crystal phase of microwave-synthesized sub-10 nm upconverting nanoparticles. 2019 , 7, 15364-15374	15
324	Facile Synthesis of Nitrogen-Doped Carbon Dots from Lignocellulosic Waste. 2019 , 9,	22
323	Carbon Dots: A Mystic Star in the World of Nanoscience. 2019 , 2019, 1-19	53
322	Biomass-Derived Sulfur, Nitrogen Co-Doped Carbon Dots for Colorimetric and Fluorescent Dual Mode Detection of Silver (I) and Cell Imaging. 2019 , 4, 21500-21508	29
321	Influence of nitrogen/phosphorus-doped carbon dots on polyamide thin film membranes for water vapor/N mixture gas separation.. 2019 , 9, 32121-32129	8
320	Simple preparation of graphene quantum dots with controllable surface states from graphite.. 2019 , 9, 38447-38453	14
319	Facile pyrolysis synthesis of ionic liquid capped carbon dots and subsequent application as the water-based lubricant additives. 2019 , 54, 1171-1183	46
318	A Facile and Simple Strategy for the Synthesis of Label Free Carbon Quantum Dots from the latex of <i>Euphorbia milii</i> and Its Peroxidase-Mimic Activity for the Naked Eye Detection of Glutathione in a Human Blood Serum. 2019 , 7, 1923-1932	26
317	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. 2019 , 11, 2243-2253	57
316	Photoluminescence carbon dot as a sensor for detecting of <i>Pseudomonas aeruginosa</i> bacteria: Hydrothermal synthesis of magnetic hollow NiFe ₂ O ₄ -carbon dots nanocomposite material. 2019 , 161, 564-577	117
315	Magnesium doped carbon quantum dots synthesized by mechanical ball milling and displayed Fe ³⁺ sensing. 2019 , 34, 336-342	13
314	Review on carbon dots in food safety applications. 2019 , 194, 809-821	78
313	Near-infrared fluorescent carbon dots encapsulated liposomes as multifunctional nano-carrier and tracer of the anticancer agent cinobufagin in vivo and in vitro. 2019 , 174, 384-392	22
312	A facile method for precipitating of dispersed carbon particles prepared by microwave heating and its application for dye removal. 2019 , 275, 394-401	9
311	Carbon dots: The next generation platform for biomedical applications. 2019 , 96, 887-903	83
310	Shedding light on gene therapy: Carbon dots for the minimally invasive image-guided delivery of plasmids and noncoding RNAs - A review. 2019 , 18, 81-93	69

309	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions. 2019 , 95, 72-77	18
308	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture. 2019 , 247-277	25
307	Natural Biomass as Carbon Sources for the Synthesis of Photoluminescent Carbon Dots. 2019 , 109-134	2
306	Carbon Dots and Their Polymeric Nanocomposites. 2019 , 217-260	2
305	Green and efficient synthesis of carbon quantum dots and their luminescent properties. 2019 , 206, 158-163	14
304	Efficient solid-state and dual-mode photoluminescence of carbon-dots/NaLuF ₄ microcrystals for multifunctional applications. 2019 , 775, 457-465	7
303	Development of nitrogen and sulfur-doped carbon dots for cellular imaging. 2019 , 9, 127-132	23
302	Fuel waste to fluorescent carbon dots and its multifarious applications. 2019 , 282, 972-983	20
301	S-doped carbon dots capped ZnCdTe quantum dots for ratiometric fluorescence sensing of guanine. 2019 , 279, 44-52	36
300	Synthesis and characterization of fluorescent N-CDs/ZnONPs nanocomposite for latent fingerprint detection by using powder brushing method. 2020 , 13, 3817-3835	18
299	Carbon nanodots synthesized from chitosan and its application as a corrosion inhibitor in boat-building carbon steel BIS2062. 2020 , 10, 1061-1071	18
298	Electro-spinning of cellulose acetate nanofibers/Fe/carbon dot as photoluminescence sensor for mercury (II) and lead (II) ions. 2020 , 229, 115428	82
297	Fabrication, characterization and response surface method optimization for quantum efficiency of fluorescent nitrogen-doped carbon dots obtained from carboxymethylcellulose of oil palms empty fruit bunch. 2020 , 28, 584-592	14
296	Novel Synthesis Without Separation and Purification Processes of Carbon Dots and Silver/Carbon Hybrid Nanoparticles. 2020 , 30, 1352-1359	3
295	Synthesis of fluorescent carbon quantum dots (CQDs) through the mild thermal treatment of agro-industrial residues assisted by Al ₂ O ₃ . 2020 , 10, 1301-1312	5
294	Electrochemical paper-based devices: sensing approaches and progress toward practical applications. 2020 , 20, 9-34	109
293	Spectroscopic studies of the optical properties of carbon dots: recent advances and future prospects. 2020 , 4, 472-488	35
292	Food waste as a carbon source in carbon quantum dots technology and their applications in food safety detection. 2020 , 95, 86-96	81

291	Carbon-based dots for electrochemiluminescence sensing. 2020 , 4, 369-385	38
290	Recent progress in g-C ₃ N ₄ quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. 2020 , 8, 485-502	103
289	Graphitic Carbon Quantum Dots Modified Nickel Cobalt Sulfide as Cathode Materials for Alkaline Aqueous Batteries. 2020 , 12, 16	74
288	Biocompatible liquid-type carbon nanodots (C-paints) as light delivery materials for cell growth and astaxanthin induction of <i>Haematococcus pluvialis</i> . 2020 , 109, 110500	11
287	Cellulose hydrogel is a novel carbon-source and doping-material-carrier to prepare fluorescent carbon dots for intracellular bioimaging. 2020 , 2, 1	1
286	Chemiluminescent determination of L-cysteine with the lucigenin-carbon dot system. 2019 , 187, 50	18
285	Fabrication of dual emission carbon dots and its use in highly sensitive thioamide detection. 2020 , 175, 108126	7
284	Quantum Dots. 2020 , 243-265	13
283	Carbon Dots Derived from Facile Tailoring of Shaerhu Lignite as a Novel Fluorescence Sensor with High-Selectivity and Sensitivity for Cu ²⁺ Detection. 2020 , 5, 12125-12130	3
282	Fluorescent Carbon Dots Functionalized with Self-Assembled Glycan Monolayers for Probing Interactions across the Glyco-Interactome. 2020 , 3, 7804-7817	2
281	Fluorescent recognition of Fe in acidic environment by enhanced-quantum yield N-doped carbon dots: optimization of variables using central composite design. 2020 , 10, 11710	26
280	Metal-Free Carbon-Based Supercapacitors A Comprehensive Review. 2020 , 1, 410-438	11
279	Acetone-derived luminescent polymer dots: a facile and low-cost synthesis leads to remarkable photophysical properties.. 2020 , 10, 38437-38445	1
278	Nanotheranostic Carbon Dots as an Emerging Platform for Cancer Therapy. 2020 , 1, 58-77	12
277	Carbon-Based Quantum Dots for Electrochemical Detection of Monoamine Neurotransmitters-Review. 2020 , 10,	9
276	Moisture-Enabled Electricity Generation: From Physics and Materials to Self-Powered Applications. 2020 , 32, e2003722	46
275	Fluorescent carbon dots are the new quantum dots: an overview of their potential in emerging technologies and nanosafety. 2020 , 55, 15074-15105	13
274	Fluorescent patterning of paper through laser engraving. 2020 , 16, 7659-7666	4

273	Chlorophyll()/Carbon Quantum Dot Bio-Nanocomposite Activated Nano-Structured Silicon as an Efficient Photocathode for Photoelectrochemical Water Splitting. 2020 , 12, 37218-37226	16
272	Starch fermentation wastewater as a precursor to prepare S,N-doped carbon dots for selective Fe(III) detection and carbon microspheres for solution decolorization. 2020 , 159, 105338	9
271	Nitrogen-sulfur co-doped pH-insensitive fluorescent carbon dots for high sensitive and selective hypochlorite detection. 2020 , 242, 118721	16
270	Eco-Friendly Fluorescent Carbon Nanodots: Characteristics and Potential Applications. 2020 ,	2
269	Recent Developments of Carbon Dots in Biosensing: A Review. 2020 , 5, 2724-2741	116
268	DNA-damage and cell cycle arrest initiated anti-cancer potency of super tiny carbon dots on MCF7 cell line. 2020 , 10, 13880	11
267	Ultrafast synthesis of carbon quantum dots from fenugreek seeds using microwave plasma enhanced decomposition: application of C-QDs to grow fluorescent protein crystals. 2020 , 10, 12333	24
266	Solvothermal Synthesis and Inkjet Printing of Carbon Quantum Dots. 2020 , 5, 14930-14934	3
265	A zeolite-based ship-in-a-bottle route to ultrasmall carbon dots for live cell labeling and bioimaging. 2020 , 2, 5803-5809	2
264	Microwave-Synthesized Polysaccharide-Derived Carbon Dots as Therapeutic Cargoes and Toughening Agents for Elastomeric Gels. 2020 , 12, 51940-51951	42
263	Crosslinked chitosan embedded TiO NPs and carbon dots-based nanocomposite: An excellent photocatalyst under sunlight irradiation. 2020 , 164, 3676-3686	9
262	Inverted Hybrid Light-Emitting Diodes Using Carbon Dots as Selective Contacts: The Effect of Surface Ligands. 2020 , 2, 1388-1394	7
261	Phosphonate functionalized carbon spheres as Brønsted acid catalysts for the valorization of bio-renewable pinene oxide to trans-carveol. 2020 , 49, 7210-7217	11
260	Deep Eutectic Solvent-assisted Synthesis of Nitrogen-doped Carbon Quantum Dots for Cell Imaging. 2020 , 36, 955-961	2
259	Advances in fluorescent carbon dots for biomedical applications. 2020 , 5, 1758592	17
258	Fluorescent Carbon Quantum Dots-Synthesis,Functionalization and Sensing Application in FoodAnalysis. 2020 , 10,	42
257	Studies on carbon-quantum-dot-embedded iron oxide nanoparticles and their electrochemical response. 2020 , 31, 355502	9
256	Green synthesis of nanomaterials - A scientometric assessment. 2020 , 267, 122036	30

255	Microwave assisted facile green synthesis of carrageenan carbon dots(CDs) and their interaction with Hisbiscus Rosa sinensis leaf cells 2020, 1-17	1
254	Enhanced photoelectric performance of TiO2 nanotubes sensitized with carbon dots derived from bagasse. 2020, 749, 137428	3
253	A review on the superb contribution of carbon and graphene quantum dots to electrochemical capacitors performance: Synthesis and application. 2020, 22, 100171	26
252	Carbon Dots@rGO Paper as Freestanding and Flexible Potassium-Ion Batteries Anode. 2020, 7, 2000470	60
251	Recent Advances in Energy Conversion Applications of Carbon Dots: From Optoelectronic Devices to Electrocatalysis. 2020, 16, e2001295	60
250	Advances in carbon dots: from the perspective of traditional quantum dots. 2020, 4, 1586-1613	94
249	Preparation and Biomedical Applications of Multicolor Carbon Dots: Recent Advances and Future Challenges. 2020, 37, 1900489	16
248	The Cost-Effective Preparation of Green Fluorescent Carbon Dots for Bioimaging and Enhanced Intracellular Drug Delivery. 2020, 15, 55	20
247	Formation of carbon quantum dots and graphene nanosheets from different abundant carbonaceous materials. 2020, 106, 107813	25
246	Manifestation of fluorophore segmental motion in carbon dots in steady-state fluorescence experiments. 2020, 22, 8401-8408	3
245	Nitrogen-doped carbon dots used as an efficient fluorescent sensor for Fe ³⁺ and glutathione detection. 2020, 178, 108358	31
244	Fluorescent carbonaceous materials isolated from cigarette ashes for the determination of iron(iii) in water samples. 2020, 12, 3523-3529	4
243	High green-emission carbon dots and its optical properties: Microwave power effect. 2020, 10, 055008	9
242	Nitrogen/sulfur Co-doping strategy to synthesis green-yellow emitting carbon dots derived from xylose: Toward application in pH sensing. 2020, 227, 117489	3
241	Novel synthesis of CuCoSnS-carbon quantum dots nano-composites potential light absorber for hybrid photovoltaics. 2020, 31, 235401	2
240	Facile Synthesis of Fluorescent Polymer Encapsulated Metal (PoEM) Nanoparticles for Imaging and Therapeutic Applications. 2020, 2, 1388-1397	9
239	A study on human serum albumin corona formed on photoluminescent carbon dots. 2020, 44, 447-452	
238	Detection of Silver Nanoparticles Using Green Synthesis of Fluorescent Nitrogen-Doped Carbon Dots. 2020, 44, 379-387	3

237	Synthesis of green-emitting carbon quantum dots with double carbon sources and their application as a fluorescent probe for selective detection of Cu ions.. 2020 , 10, 2536-2544	18
236	Effect of heating power towards synthesis of carbon dots through microwave pyrolysis method for optical-based biosensor. 2020 ,	2
235	Green preparation of Carbon Quantum dots using Gingko biloba to sensitize TiO ₂ for the photohydrogen production. 2020 , 109, 104945	16
234	ZnCl ₂ Enabled Synthesis of Highly Crystalline and Emissive Carbon Dots with Exceptional Capability to Generate O ₂ ? 2020 , 2, 495-506	28
233	Highly Efficient Electron Transfer in a Carbon Dot-Polyoxometalate Nanohybrid. 2020 , 11, 4379-4384	9
232	Recent advances in crystalline carbon dots for superior application potential. 2020 , 1, 525-553	37
231	Monitoring graphene oxide's efficiency for removing Re(VII) and Cr(VI) with fluorescent silica hydrogels. 2020 , 262, 114246	14
230	Modulating charge separation and transfer kinetics in carbon nanodots for photoredox catalysis. 2020 , 50, 365-377	9
229	Far-Red Carbon Dots as Efficient Light-Harvesting Agents for Enhanced Photosynthesis. 2020 , 12, 21009-21019	41
228	Glowing photoluminescence in carbon-based nanodots: current state and future perspectives. 2020 , 55, 8769-8792	10
227	Template-free microwave-assisted hydrothermal synthesis of manganese zinc ferrite as a nanofertilizer for squash plant (). 2020 , 6, e03596	28
226	Microwave-assisted synthesis of carbon powder for rapid dye removal. 2020 , 250, 123057	6
225	Carbon and graphene quantum dots: a review on syntheses, characterization, biological and sensing applications for neurotransmitter determination.. 2020 , 10, 15406-15429	177
224	Polyaniline supported g-C ₃ N ₄ quantum dots surpass benchmark Pt/C: Development of morphologically engineered g-C ₃ N ₄ catalysts towards metal-free methanol electro-oxidation. 2020 , 461, 228150	13
223	The Rapid and Large-Scale Production of Carbon Quantum Dots and their Integration with Polymers. 2021 , 60, 8585-8595	33
222	The Rapid and Large-Scale Production of Carbon Quantum Dots and their Integration with Polymers. 2021 , 133, 8668-8678	4
221	Disclosing the emissive surface traps in green-emitting carbon nanodots. 2021 , 173, 454-461	7
220	Super-stable carbon quantum dots nanofluid for efficient solar-thermal conversion. 2021 , 228, 113675	10

219	Recent advances in the modification of carbon-based quantum dots for biomedical applications. 2021 , 120, 111756	51
218	A universal sugar-blowing approach to synthesize fluorescent nitrogen-doped carbon nanodots for detection of Hg(II). 2021 , 544, 148725	9
217	Normal breast epithelial MCF-10A cells to evaluate the safety of carbon dots. 2021 , 12, 245-253	3
216	A review on in vivo and in vitro nanotoxicological studies in plants: A headlight for future targets. 2021 , 208, 111697	20
215	Hyaluronan-Conjugated Carbon Quantum Dots for Bioimaging Use. 2021 , 13, 277-286	22
214	Carbon Dots-Decorated Carbon-Based Metal-Free Catalysts for Electrochemical Energy Storage. 2021 , 17, e2002998	15
213	A microwave-based one-pot process for homogeneous surface coating: improved electrochemical performance of Li(Ni _{1/3} Mn _{1/3} Co _{1/3})O ₂ with a nano-scaled ZnO:Al layer. 2021 , 2, 146-157	
212	Rapid fabrication of carbon dots from babul seed powder as green precursor: Antioxidant activity and multicolor imaging. 2021 , 43, 1389-1397	3
211	Enhanced Performance of Carbon Quantum Dots Based Organic Solar Cells. 2021 , 183-189	
210	Chapter 7:Carbon Dots Derived from Natural Carbon Sources: Preparation, Chemical Functionalization, Characterization, and Applications. 2021 , 142-172	1
209	A hyperbranched polysiloxane containing carbon dots with near white light emission.	4
208	Microwave-Assisted Synthesis of Inorganic Nanomaterials. 2021 , 79-107	1
207	Vapor-phase production of nanomaterials. 2021 , 50, 7132-7249	15
206	Highly fluorescent carbon dots as novel theranostic agents for biomedical applications. 2021 , 13, 17236-17253	9
205	Organic dots (O-dots) for theranostic applications: preparation and surface engineering.. 2021 , 11, 2253-2291	4
204	Dual-excitation and dual-emission carbon dots for Fe detection, temperature sensing, and lysosome targeting. 2021 , 13, 4246-4255	4
203	Long-term effects of impurities on the particle size and optical emission of carbon dots. 2021 , 3, 182-189	5
202	Carbon dots: synthesis, properties and biomedical applications. 2021 , 9, 6553-6575	22

201	Fundamentals of polymeric nanostructured materials. 2021 , 1-40	
200	Fluorescent Nanocomposites: Hollow Silica Microspheres with Embedded Carbon Dots. 2021 , 86, 176-183	0
199	Synthesis and modification of carbon dots for advanced biosensing application. 2021 , 146, 4418-4435	19
198	Insights and Perspectives Regarding Nanostructured Fluorescent Materials toward Tackling COVID-19 and Future Pandemics. 2021 , 4, 911-948	15
197	Coal based carbon dots: Recent advances in synthesis, properties, and applications. 2021 , 2, 1589-1604	3
196	Photodegradation of carbon dots cause cytotoxicity. 2021 , 12, 812	27
195	Converting raw coal powder into polycrystalline nano-graphite by metal-assisted microwave treatment. 2021 , 25, 100660	2
194	Carbon Dot-Based Biosensors. 2021 , 1, 2000042	4
193	Carbon Dots and Stability of Their Optical Properties. 2021 , 38, 2000271	9
192	Progress and challenges in understanding of photoluminescence properties of carbon dots based on theoretical computations. 2021 , 22, 100924	23
191	Enhanced bacterial uptake of ¹³¹ I-labeled antimicrobial imidazolium bromide salts using fluorescent carbon nanodots. 2021 , 26, 102167	2
190	Efficient Combination of G-C N and CDs for Enhanced Photocatalytic Performance: A Review of Synthesis, Strategies, and Applications. 2021 , 17, e2007523	32
189	Carbon Dot Nanoparticles: Exploring the Potential Use for Gene Delivery in Ophthalmic Diseases. 2021 , 11,	5
188	Research progress in the use of cationic carbon dots for the integration of cancer diagnosis with gene treatment. 2021 , 36, 373-389	3
187	Functionalized carbon dots for advanced batteries. 2021 , 37, 8-39	35
186	Fluorescence Probe Based on Graphene Quantum Dots for Selective, Sensitive and Visualized Detection of Formaldehyde in Food. 2021 , 13, 5273	2
185	Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. 2021 , 10,	7
184	Emerging theranostic applications of carbon dots and its variants. 20200089	5

- 183 The Photodynamic Anti-Tumor Effects of New PPa-CDs Conjugate with pH Sensitivity and Improved Biocompatibility. **2021**,
- 182 Highly green fluorescent carbon quantum dots synthesis via hydrothermal method from fish scale. **2021**, 26, A1-A1 1
- 181 Facile synthesis of yellowish-green emitting carbon quantum dots and their applications for phoxim sensing and cellular imaging.. **2022**, 1206, 338685 7
- 180 Carbon Dots-Mediated Fluorescent Scaffolds: Recent Trends in Image-Guided Tissue Engineering Applications. **2021**, 22, 4
- 179 Biomass-Derived Carbon Materials: Controllable Preparation and Versatile Applications. **2021**, 17, e2008079 21
- 178 Preparation of Carbon Nanodots with Ultraviolet Emission by Pulsed Laser Ablation. **2021**, 258, 2100110 1
- 177 Aqueous Conversion of Fructose Phosphate Precursor Nanoparticles into Emissive C-Dot Composite Nanoparticles. **2021**, 7, 916-926
- 176 Long-wavelength (red to near-infrared) emissive carbon dots: Key factors for synthesis, fluorescence mechanism, and applications in biosensing and cancer theranostics. **2021**, 32, 3653-3653 4
- 175 Formulation of bionanomaterials: A review of particle design towards oil recovery applications. **2021**, 98, 82-102 7
- 174 Highly Photoluminescent Nitrogen- and Zinc-Doped Carbon Dots for Efficient Delivery of CRISPR/Cas9 and mRNA. **2021**, 32, 1875-1887 4
- 173 Nanoparticle synthesis assisted by machine learning. **2021**, 6, 701-716 38
- 172 Green preparation and application of carbon quantum dots. **2021**, 826, 012036
- 171 Molecularly Imprinted PolymerCarbon Dot Composites for Biomedical Application. **2022**, 151-186
- 170 Carbon Dots: A Future Blood-Brain Barrier Penetrating Nanomedicine and Drug Nanocarrier. **2021**, 16, 5003-5016 11
- 169 Carbon Quantum Dots for Energy Applications: A Review. **2021**, 4, 6515-6541 25
- 168 Tuneable properties of carbon quantum dots by different synthetic methods. 1 4
- 167 Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. **2021**, 333, 115950 29
- 166 Synthesis and characterization of vitamin D-functionalized carbon dots for CRISPR/Cas9 delivery. **2021**, 16, 1673-1690 2

165	Microwave-assisted synthesis of fluorescent carbon dots from nanocellulose for dual-metal ion-sensor probe: Fe (III) and Mn (II). 2021 , 28, 9705-9724	2
164	Additive-Free All-Carbon Composite: A Two-Photon Material System for Nanopatterning of Fluorescent Sub-Wavelength Structures. 2021 , 15, 14193-14206	2
163	One-pot sonochemical preparation of carbon dots, influence of process parameters and potential applications: a review. 1	5
162	Versatile Fluorescent Carbon Dots from Citric Acid and Cysteine with Antimicrobial, Anti-biofilm, Antioxidant, and AChE Enzyme Inhibition Capabilities. 2021 , 31, 1705-1717	9
161	Sustainable synthesis of multifunctional carbon dots using biomass and their applications: A mini-review. 2021 , 9, 105802	15
160	Luminescent nanostructures for the detection of latent fingerprints: A review.	0
159	Blue-emitting carbon quantum dots: Ultrafast microwave synthesis, purification and strong fluorescence in organic solvents. 2021 , 623, 126673	5
158	The development of carbon dots: From the perspective of materials chemistry. 2021 , 51, 188-188	30
157	Sustainable Hydrothermal and Solvothermal Synthesis of Advanced Carbon Materials in Multidimensional Applications: A Review. 2021 , 14,	5
156	One-step hydrothermal method for preparing carbon dots and its determination of lead (II). 2021 , 2011, 012101	
155	Improved comprehensive performance of CsPbI ₂ Br perovskite solar cells by modifying the photoactive layers with carbon nanodots. 2021 ,	4
154	Small nanoparticles bring big prospect: The synthesis, modification, photoluminescence and sensing applications of carbon dots. 2021 ,	2
153	Highly selective fluorometric detection of para-nitrophenol from its isomers by nitrogen-doped graphene quantum dots. 2021 , 168, 106389	5
152	The importance of surface states in N-doped carbon quantum dots. 2021 , 183, 1-11	17
151	Cancer cell identification by facile imaging of intracellular reductive substances with fluorescent nanosensor. 2021 , 234, 122650	0
150	Controlling the emissive pathways of carbon nanoparticles by selective surface functionalization. 2021 , 566, 150618	1
149	Synthesis and properties of carbon quantum dots and their research progress in cancer treatment. 2021 , 196, 109766	4
148	Emission characteristics of carbon films in comparison with solvatochromic effects of carbon nanoparticles. 2022 , 266, 120442	0

147	Nitrogen-doped carbon dots from Kraft lignin waste with inorganic acid catalyst and their brain cell imaging applications. 2021 , 67, e17132	5
146	Carbon dots for cancer nanomedicine: a bright future. 2021 , 3, 5183-5221	7
145	Study on the influence of embedded structure of carbon quantum dots of the organic solar cells with the territory active layer structure of P3HT: PC61BM: CQDs. 2021 , 32, 2293-2301	0
144	Fabrication and analysis of starch-based green materials. 2021 , 301-318	
143	Quantum dots in cell imaging and their safety issues. 2021 , 9, 5765-5779	14
142	Metal and Carbon Quantum Dot Photocatalysts for Water Purification. 2021 , 81-118	2
141	Carbon Quantum Dots: A Potential Candidate for Diagnostic and Therapeutic Application. 2020 , 49-70	5
140	Extracellular and intracellular synthesis of gold and silver nanoparticles by living plants: a review. 2021 , 6, 1	12
139	Polyethylene glycol (PEG) derived carbon dots: Preparation and applications. 2020 , 20, 100677	28
138	Facile approach to synthesize highly fluorescent multicolor emissive carbon dots via surface functionalization for cellular imaging. 2018 , 513, 505-514	43
137	Fluorescence immunoassay based on nitrogen doped carbon dots for the detection of human nuclear matrix protein NMP22 as biomarker for early stage diagnosis of bladder cancer. 2020 , 157, 104966	12
136	Chemiluminescent carbon dots: Synthesis, properties, and applications. 2020 , 35, 100954	70
135	Environmentally exploitable biocide/fluorescent metal marker carbon quantum dots.. 2020 , 10, 42916-42929	14
134	Synthesis of Oval Nitrogen Doped Carbon Quantum Dots by Microwave Assisted Pyrolysis. 2020 ,	2
133	Carbon Dots as Nanotherapeutics for Biomedical Application. 2020 , 26, 2207-2221	10
132	Exploring the Potential of Carbon Dots to Combat COVID-19. 2020 , 7, 616575	17
131	Controllable Synthesis of Fluorescent Carbon Dots and Their Detection Application as Nanoprobes. 2013 , 5, 247	7
130	Synthesis, Properties and Applications of Luminescent Carbon Dots. 2021 , 421-460	

- 129 Progress in pulsed laser ablation in liquid (PLAL) technique for the synthesis of carbon nanomaterials: a review. **2021**, 127, 8
- 128 Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives. **2021**, 53, 107843 4
- 127 References. 257-276
- 126 Immunotherapy and Vaccines. **2016**, 441-464
- 125 Synthesis and Applications of Carbon Quantum Dots. **2017**, 06, 128-136
- 124 Synthetic Strategies for Anisotropic and Shape-Selective Nanomaterials. **2017**, 29-77
- 123 Carbon quantum dots: nanolights. **2017**, 2, 2
- 122 One-step microwave synthesis of photoluminescent carbon nanoparticles from sodium dextran sulfate water solution. **2018**,
- 121 Factors affecting photoluminescence of structures based on citric acid and ethylenediamine. **2019**,
- 120 Capillary Electrophoretic Characterization of Water-soluble Carbon Nanodots Formed from Glutamic Acid and Boric Acid under Microwave Irradiation. **2020**, 36, 941-946 0
- 119 Carbon Dots: An Innovative Tool for Drug Delivery in Brain Tumors. **2021**, 22, 6
- 118 The synthetic strategies, photoluminescence mechanisms and promising applications of carbon dots: Current state and future perspective. **2022**, 186, 91-127 26
- 117 Near Infrared-Emitting Carbon Nanomaterials for Biomedical Applications. **2020**, 133-161 1
- 116 Nanoparticle-Incorporated Soy Protein Isolate Films. **2020**, 19-37
- 115 Chapter 3: Sensors as Green Tools. **2020**, 55-91 1
- 114 Fluorescent Carbon Nanostructures. **2020**, 357-399
- 113 Sensing of Transition Metals by Top-Down Carbon Dots. **2021**, 11, 10360 1
- 112 Synthesis of Some Bioactive Nanomaterials and Applications of Various Nanoconjugates for Targeted Therapeutic Applications. **2021**, 347-376

111	Carbon dots-based nanocarrier system with intrinsic tumor targeting ability for cancer treatment. 2020 , 1, 030007	1
110	Preparation of Carbon Dots for Effective Fluorescence Imaging of Ovarian Cancer Cells and In Vivo Brain Imaging. 2020 , 15, 2050158	
109	Tertiary Amine-Terminated Carbon Dots with Reversible CO ₂ Switchable Amphiphilicity as the Versatile Lubricant Additives.	2
108	Antibacterial efficiency of carbon dots against Gram-positive and Gram-negative bacteria: A review. 2021 , 9, 106821	5
107	Carbon dots: a novel platform for biomedical applications.	7
106	Development of a multifunctional nanocomposite film with record-high ultralow temperature toughness and unprecedented fatigue-resistance. 2022 , 432, 134408	0
105	Distinctive optical transitions of tunable multicolor carbon dots.	1
104	Quantum yield optimization of carbon dots using response surface methodology and its application as control of Fe ³⁺ ion levels in drinking water. 2022 , 9, 015702	1
103	Phoenix dactylifera leaf-derived biocompatible carbon quantum dots: application in cell imaging. 1	0
102	Ultrasml fluorescent nanomaterials for sensing and bioimaging applications. 2022 , 531-570	
101	A review on advancements in carbon quantum dots and their application in photovoltaics.. 2022 , 12, 4714-4759	8
100	Electrochemiluminescence Sensor Based on N-Doped Carbon Quantum Dots for Determination of Ceftazidime in Real Samples.	1
99	A Green Strategy for Nitrogen-Doped Polymer Nanodots with High Oxygen and Chloride Corrosion Resistance in Extremely Acidic Condition. 2022 , 437, 135242	0
98	Fluorescence sensing by carbon nanoparticles.	0
97	Carbon Dots: Fundamental Concepts and Biomedical Applications. 2022 , 83-108	
96	A photocatalyst prepared by NiCo ₂ O ₄ /CNQD-modified carbon fabric heterojunction enhanced visible-light-driven photocatalytic degradation of methyl orange.	0
95	Fluorescent Mechanism in Zero-Dimensional Carbon Nanomaterials: A Review.. 2022 , 1	1
94	Recent advances in utility of artificial intelligence towards multiscale colloidal based materials design. 2022 , 47, 100595	3

93	High Quantum Yield Nitrogen-Doped Carbon Quantum Dot-Based Fluorescent Probes for Selective Sensing of 2,4,6-Trinitrotoluene.	2
92	Current scenario and recent advancement of doped carbon dots: a short review scientocracy update (2013-2022). 1	1
91	Homogeneous Electrochemiluminescence in the Sensors Game: What Have We Learned from Past Experiments?. 2021 ,	4
90	One-Pot Synthesis of Deep Blue Hydrophobic Carbon Dots with Room Temperature Phosphorescence, White Light Emission, and Explosive Sensor. 2100969	5
89	Carbon nanoparticles for medicine: current and future. 2022 , 45, 1	0
88	A Review on Carbon Quantum Dot Based Semiconductor Photocatalysts for the Abatement of Refractory Pollutants.. 2022 ,	
87	A highly selective fluorescent sensor for manganese(II) ion detection based on N,S-doped carbon dots triggered by manganese oxide. 2022 , 110325	0
86	A perspective on sustainable luminescent solar concentrators. 2022 , 131, 140901	3
85	Photodynamic Anti-Bacteria by Carbon Dots and Their Nano-Composites.. 2022 , 15,	2
84	Carbon dots as a superior building nanomaterial for enhancing the mechanical properties of cement-based composites. 2022 , 52, 104523	0
83	Carbon dots on paper for determination of Cu ²⁺ in sugar cane spirits samples for fluorescence digital image-based method. 2022 , 179, 107500	1
82	Sustainable development information management of carbon nanomaterial-based sensors. 2022 , 3-12	5
81	Carbon Dots Boost dsRNA Delivery in Plants and Increase Local and Systemic siRNA Production. 2022 , 23, 5338	1
80	Carbon Dots in Bioimaging, Biosensing and Therapeutics: A Comprehensive Review. 2200012	14
79	State-of-the-art developments in carbon quantum dots (CQDs): Photo-catalysis, bio-imaging, and bio-sensing applications.. 2022 , 302, 134815	5
78	Recent Progress on Carbon Quantum Dots Based Photocatalysis.. 2022 , 10, 881495	2
77	?????????????????. 2022 ,	
76	A Strategic Review on Carbon Quantum Dots for Cancer-Diagnostics and Treatment. 2022 , 10,	2

75	White light emitting diode and anti-counterfeiting applications of microwave assisted synthesized green fluorescent carbon dots derived from waste curry leaves. 2022 , 100249	0
74	The synthesis of carbon-based quantum dots: A supercritical fluid approach and perspective. 2022 , 100752	1
73	Nitrogen-doped carbon quantum dots as a highly selective fluorescent and electrochemical sensor for tetracycline. 2022 , 432, 114060	0
72	Nanocomposites of Epoxy and Carbon Dots. 201-233	
71	A fluorescence digital image-based method using carbon quantum dots to evaluate the compliance of a biocidal agent.	0
70	Study on optical properties of carbon nanodots by annealing of rice powder as a carbon source. 2022 , 2243, 012103	
69	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. 2022 , 7,	
68	Hydrothermal synthesis of carbon nanodots from waste wine cork and their use in biocompatible fluorescence imaging. 2022 , 37, 595-602	0
67	Sugar-derived Isotropic Nanoscale Polycrystalline Graphite Capable of Considerable Plastic Deformation. 2200363	1
66	Fluorescent carbon dots and noble metal nanoclusters for sensing applications: Minireview.	0
65	Is precarbonization necessary for effective laser graphitization?. 2022 ,	0
64	Covalent and Noncovalent Loading of Doxorubicin by Folic Acid-Carbon Dot Nanoparticles for Cancer Theranostics.	2
63	Assessment of thermal conductivity of polyethylene glycol-carbon dot nanofluid through a combined experimental-data mining investigation. 2022 , 19, 2695-2704	0
62	Overview of carbon dot synthesis. 2022 , 39-68	
61	Quercetin conjugated fluorescent nitrogen-doped carbon dots for targeted cancer therapy application.	1
60	Direct Measurement of the pH of Aerosol Particles using Carbon Quantum Dots.	
59	A universal strategy for green and in situ synthesis of carbon dot-based pickling solution.	3
58	A Nitrogen-Doped Fluorescent Carbon Dot for Gallium Occurrence Investigation in Environment.	

57	Recent Advances on Synthesis and Potential Applications of Carbon Quantum Dots. 9,	4
56	Carbon Dots for Carbon Dummies: The Quantum and The Molecular Questions Among Some Others.	2
55	Carbon Quantum Dots: A Promising Nanocarrier for Bioimaging and Drug Delivery in Cancer. 2022 , 104068	3
54	The ON-OFF Microwave Reaction Time Technique: A Novel Strategy to Impact the Fluorescence of Multi-Color Emissive Carbon Dots. 2022 , 129735	1
53	Carbon-based nanomaterials in gene therapy. 2022 , 7, 100062	1
52	Characterization of N-doped carbon quantum dots synthesized by DBD-based cold atmospheric pressure plasma jet.	
51	Color Conversion Light-Emitting Diodes Based on Carbon Dots: A Review. 2022 , 15, 5450	1
50	A review on carbon quantum dots: Synthesis, photoluminescence mechanisms and applications.	1
49	Preparation of renewable porous carbons for CO ₂ capture [A review. 2022 , 236, 107437	3
48	Wild jujube-based fluorescent carbon dots for highly sensitive determination of oxalic acid. 2022 , 12, 28545-28552	1
47	The advanced multi-functional carbon dots in photoelectrochemistry based energy conversion. 2022 , 4, 042001	0
46	Fluorescent carbon dot as an optical amplifier in modern agriculture. 2022 , e00493	1
45	High Reactive Oxygen Species Produce from the Fluorescence Carbon Dots for Anticancer and Photodynamic Therapy: A. Review.	0
44	Nanocomposites of Carbon Quantum Dots and Graphene Quantum Dots: Environmental Applications as Sensors. 2022 , 10, 367	1
43	Nanotechnology Applications in Food and Nutrition Science. 2022 , 185-223	0
42	Carbon quantum dots as ROS-generator and -scavenger: A comprehensive review. 2022 , 208, 110784	0
41	Electrochemiluminescence biosensing and bioimaging with nanomaterials as emitters.	1
40	Multicolour carbon dots with excitation-independent emission by microwave solvothermal reaction.	1

39	Maillard reaction for nucleation of polymer quantum dots from chitosan-glucose conjugate: Antagonistic for cancer and viral diseases. 2022 ,	0
38	Development of a fluorescence sensing assay based on NB-doped carbon dots and molecularly imprinted polymer for selective and sensitive detection of florfenicol in milk.	0
37	Improved citric acid-derived carbon dots synthesis through microwave-based heating in a hydrothermal pressure vessel. 2022 , 12, 32401-32414	1
36	Application of carbon-based quantum dots in photodynamic therapy. 2022 ,	1
35	Light-Activated Modified Arginine Carbon Dots as Antibacterial Particles. 2022 , 12, 1376	0
34	Preparation of Fluorescent Carbon Dots Composites and Their Potential Applications in Biomedicine and Drug Delivery A Review. 2022 , 14, 2482	2
33	A state-of-the-art review on carbon quantum dots: Prospective, advances, zebrafish biocompatibility and bioimaging in vivo and bibliometric analysis. 2023 , 35, e00529	0
32	Applications of carbon dots and its modified carbon dots in bone defect repair. 2022 , 16,	0
31	Facile Access to Fabricate Carbon Dots and Perspective of Large-Scale Applications. 2206671	0
30	Carbon-Based Nanomaterials: Carbon Nanotube, Fullerene, and Carbon Dots. 2023 , 27-57	0
29	Fabrication of Carbon-Based Quantum Dots via a Bottom-Up Approach: Topology, Chirality, and Free Radical Processes in Building Blocks 2205957	0
28	Carboxymethylcellulose/agar-based functional film incorporated with nitrogen-doped polyethylene glycol-derived carbon dots for active packaging applications. 2023 , 313, 137627	0
27	A nitrogen-doped fluorescent carbon dot for gallium occurrence investigation in environment. 2023 , 289, 116218	0
26	Carbon dots applications for development of sustainable technologies for food safety: A comprehensive review. 2023 , 3, 100263	0
25	Colloidal Quantum Dots: Synthesis, Composition, Structure, and Emerging Optoelectronic Applications. 2200551	1
24	Functionalization of carbon and graphene quantum dots. 2023 , 335-381	0
23	Preparation, characterization, and applications of graphene-based quantum dots (GQDs). 2023 , 21-69	0
22	Efficient bottom-up synthesis of graphene quantum dots at an atomically precise level. 2023 ,	0

- 21 Emerging Trends of Carbon-Based Quantum Dots: Nanoarchitectonics and Applications. 2207181 ○
- 20 Hydrophobic Carbon Dots Derived from Organic Pollutants and Applications in NIR Anticounterfeiting and Bioimaging. **2023**, 39, 5056-5064 ○
- 19 Photobleach effect of multi-color emitting carbon dots for UV-light sensing. **2023**, 464, 142643 ○
- 18 Strongly fluorescent conjugated polymer nanoparticles in aqueous colloidal solution for universal, efficient and effective development of sebaceous and blood fingerprints. **2023**, 642, 658-668 ○
- 17 Tunable synthesis of carbon quantum dots from the biomass of spent tea leaves as supercapacitor electrode. **2023**, 34, 105479 ○
- 16 Green synthesis of carbon dots from spent coffee grounds via ball-milling: Application in fluorescent chemosensors. **2023**, 392, 136250 ○
- 15 Activating One/Two-Photon Excited Red Fluorescence on Carbon Dots: Emerging n- π Photon Transition Induced by Amino Protonation. **2023**, 10, ○
- 14 Bioaccumulation determines the toxicity of carbon dots to two marine dinoflagellates. **2023**, 321, 138155 ○
- 13 Carbon Quantum Dots: Synthesis, Structure, Properties, and Catalytic Applications for Organic Synthesis. **2023**, 13, 422 ○
- 12 Microwave-Assisted, Rapid Synthesis of Benzimidazole based Potential Anticancer Agent Methyl 1-benzyl-2-(4-fluoro-3-nitrophenyl)-1Hbenzo[d]imidazole-5-carboxylate (TJ08) via T3P Mediated Cyclization. **2023**, 35, 598-604 ○
- 11 Introduction of Metal Nanoparticles, Dental Applications, and Their Effects. **2023**, 23-52 ○
- 10 Facile and Green Synthesis of Carbon Dots from Melia Azedarach Leaves for pH Sensing and Cell Imaging. ○
- 9 Photoluminescent Carbon Dots: A New Generation Nanocarbon Material. **2023**, 231-256 ○
- 8 Carbon quantum dots derived from fish scales as fluorescence sensors for detection of malachite green. ○
- 7 Preparation of carbon quantum dots from ionic liquid modified biomass for the detection of Fe³⁺ and Pd²⁺ in environmental water. **2023**, 255, 114795 ○
- 6 Methods for Detecting Picric Acid: A Review of Recent Progress. **2023**, 13, 3991 ○
- 5 Carbon dots (CDs): basics, recent potential biomedical applications, challenges, and future perspectives. **2023**, 25, ○
- 4 Synthesis and application of quantum dots in detection of environmental contaminants in food: A comprehensive review. **2023**, 163565 ○

- 3 The effect of carbon nanodots and graphene quantum dots on the green microalga *Scenedesmus quadricauda*.
- 2 An autonomous power temperature sensor based on window-integrated transparent PV using sustainable luminescent carbon dots.
- 1 Multifunctional Lipophobic Polymer Dots from Cyclodextrin: Antimicrobial/Anticancer Laborers and Silver Ions Chemo-Sensor. **2023**, 8, 16956-16965