Citation Report
List of articles citing

Blue photoluminescence from chemically derived graphene oxide

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#	Paper	IF	Citations
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1734	Simple photoreduction of graphene oxide nanosheet under mild conditions. **2010**, 2, 3461-6		190
1733	Solution-processed ZnO-chemically converted graphene gas sensor. **2010**, 64, 2479-2482		113
1732	A Controllable Self-Assembly Method for Large-Scale Synthesis of Graphene Sponges and Free-Standing Graphene Films. **2010**, 20, 1930-1936		235
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1729	Luminescent carbon nanodots: emergent nanolights. **2010**, 49, 6726-44		3586
1728	A graphene oxide based immuno-biosensor for pathogen detection. **2010**, 49, 5708-11		469
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1726	Graphene oxide arrays for detecting specific DNA hybridization by fluorescence resonance energy transfer. **2010**, 25, 2361-5		210
1725	Graphene oxide as a chemically tunable platform for optical applications. **2010**, 2, 1015-24		2633
1724	Graphene photonics and optoelectronics. **2010**, 4, 611-622		5678
1723	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. **2010**, 135, 2790-7		138
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1720	Mn3O4-graphene hybrid as a high-capacity anode material for lithium ion batteries. **2010**, 132, 13978-80	1738
1719	Efficient preparation of large-area graphene oxide sheets for transparent conductive films. **2010**, 4, 5245-52	775
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1716	Highly efficient photoluminescent graphene oxide with tunable surface properties. **2010**, 46, 7319-21	296
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1713	Bandgap opening in oxygen plasma-treated graphene. **2010**, 21, 435203	253
1712	Graphene oxide-based immunobiosensor for ultrasensitive pathogen detection. **2010**,	
1711	Ionic strength and pH reversible response of visible and near-infrared fluorescence of graphene oxide nanosheets for monitoring the extracellular pH. **2011**, 47, 3135-7	110
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1709	Metal ion-modulated graphene-DNAzyme interactions: design of a nanoprobe for fluorescent detection of lead(II) ions with high sensitivity, selectivity and tunable dynamic range. **2011**, 47, 6278-80	155
1708	Nucleic acid-functionalized nanomaterials for bioimaging applications. **2011**, 21, 16323	40
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1705	Photoinduced Optical Transparency in Dye-Sensitized Solar Cells Containing Graphene Nanoribbons. **2011**, 115, 25125-25131	35
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1703	The photoluminescent graphene oxide serves as an acceptor rather than a donor in the fluorescence resonance energy transfer pair of Cy3.5-graphene oxide. **2011**, 47, 12149-51	36

1702	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. **2011**, 435-464	1
1701	Photocatalytic patterning and modification of graphene. **2011**, 133, 2706-13	160
1700	Tuning chemical enhancement of SERS by controlling the chemical reduction of graphene oxide nanosheets. **2011**, 5, 952-8	275
1699	Mn□+-bonded reduced graphene oxide with strong radiative recombination in broad visible range caused by resonant energy transfer. **2011**, 11, 3951-6	77
1698	Conjugation of quantum dots with graphene for fluorescence imaging of live cells. **2011**, 136, 4277-83	73
1697	Electrical conductivity, chemistry, and bonding alternations under graphene oxide to graphene transition as revealed by in situ TEM. **2011**, 5, 4401-6	88
1696	Graphene oxide based photoinduced charge transfer label-free near-infrared fluorescent biosensor for dopamine. **2011**, 83, 8787-93	240
1695	Fluorographene: a wide bandgap semiconductor with ultraviolet luminescence. **2011**, 5, 1042-6	350
1694	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. **2011**, 47, 6858-60	1295
1693	Luminescent short thiol-functionalized multi-wall carbon nanotubes. **2011**, 20, 1046-1049	18
1692	Photoreaction of Graphene Oxide Nanosheets in Water. **2011**, 115, 19280-19286	212
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1690	Coulomb blockade and hopping conduction in graphene quantum dots array. **2011**, 83,	63
1689	Blue fluorescent carbon thin films fabricated from dodecylamine-capped carbon nanoparticles. **2011**, 21, 3565	48
1688	Transport behavior and negative magnetoresistance in chemically reduced graphene oxide nanofilms. **2011**, 22, 335701	25
1687	Transparent conductive films consisting of ultralarge graphene sheets produced by Langmuir-Blodgett assembly. **2011**, 5, 6039-51	351
1686	Quasi-molecular fluorescence from graphene oxide. **2011**, 1, 85	232
1685	Graphene oxide-polyethylenimine nanoconstruct as a gene delivery vector and bioimaging tool. **2011**, 22, 2558-67	325

1684	Magnetically Separable ZnFe2O4–Graphene Catalyst and its High Photocatalytic Performance under Visible Light Irradiation. **2011**, 50, 7210-7218		458
1683	Modulating optical properties of graphene oxide: role of prominent functional groups. **2011**, 5, 7640-7		173
1682	Fluorescence and electroluminescence quenching evidence of interfacial charge transfer in poly (3-hexylthiophene): graphene oxide bulk heterojunction photovoltaic devices. **2011**, 5, 942-51		74
1681	Nonlinear Optical Properties of Graphene and Carbon Nanotube Composites. **2011**,		8
1680	BiVO4–graphene catalyst and its high photocatalytic performance under visible light irradiation. **2011**, 131, 325-330		163
1679	The formation of a carbon nanotube–graphene oxide core–shell structure and its possible applications. **2011**, 49, 5071-5078		118
1678	Single Layer vs Bilayer Graphene: A Comparative Study of the Effects of Oxygen Plasma Treatment on Their Electronic and Optical Properties. **2011**, 115, 16619-16624		56
1677	Graphene-based materials: synthesis, characterization, properties, and applications. **2011**, 7, 1876-902		1968
1676	Electrochemical tuning of luminescent carbon nanodots: from preparation to luminescence mechanism. *Advanced Materials*, **2011**, 23, 5801-6	24	743
1675	Carbogenic nanodots: photoluminescence and room-temperature ferromagnetism. **2011**, 12, 2624-32		47
1674	Graphene Oxide Liquid Crystals. **2011**, 123, 3099-3103		39
1673	Graphene oxide liquid crystals. **2011**, 50, 3043-7		453
1672	An approach to produce single and double layer graphene from re-exfoliation of expanded graphite. **2011**, 49, 1946-1954		127
1671	Oxygen migration on the graphene surface. 2. Thermochemistry of basal-plane diffusion (hopping). **2011**, 49, 4226-4238		67
1670	Graphene based materials: Past, present and future. **2011**, 56, 1178-1271		2607
1669	Correlating magnetotransport and diamagnetism of sp2-bonded carbon networks through the metal-insulator transition. **2011**, 84,		25
1668	Enhancement of laser action in ZnO nanorods assisted by surface plasmon resonance of reduced graphene oxide nanoflakes. **2012**, 20 Suppl 6, A799-805		25
1667	Indirect optical transitions in hybrid spheres with alternating layers of titania and graphene oxide nanosheets. **2012**, 20, 28801-7		11

1666	Direct laser-enabled graphene oxide/reduced graphene oxide layered structures with micropatterning. **2012**, 112, 064309	36
1665	Size-dependent radiative decay processes in graphene quantum dots. **2012**, 101, 163103	24
1664	Graphene nano-, micro- and macro-photonics. **2012**,	
1663	Efros-Shklovskii variable-range hopping in reduced graphene oxide sheets of varying carbon sp2 fraction. **2012**, 86,	134
1662	Efficient Crystalline Si/Poly(ethylene dioxythiophene):Poly(styrene sulfonate):Graphene Oxide Composite Heterojunction Solar Cells. **2012**, 5, 032301	25
1661	Layer-by-layer assembled transparent conductive graphene films for solar cells application. **2012**, 1451, 75-81	
1660	Layer-by-Layer Assembled Transparent Conductive Graphene Films for Silicon Thin-Film Solar Cells. **2012**, 51, 11PF01	4
1659	Uniform graphene quantum dots patterned from self-assembled silica nanodots. **2012**, 12, 6078-83	165
1658	Linear and nonlinear optical properties of modified graphene-based materials. **2012**, 37, 1283-1289	22
1657	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. **2012**, 7, 699-712	10871
1656	Biomedical applications of graphene. **2012**, 2, 283-94	719
1655	Ultraviolet-visible spectroscopy of graphene oxides. **2012**, 2, 032146	196
1654	Novel blue light emitting graphene oxide nanosheets fabricated by surface functionalization. **2012**, 22, 2929-2934	83
1653	Graphenes in chemical sensors and biosensors. **2012**, 39, 87-113	170
1652	Investigation of graphene-based nanoscale radiation sensitive materials. **2012**,	
1651	Temperature-Dependent Fluorescence in Carbon Dots. **2012**, 116, 25552-25557	321
1650	Comparison study of structural and optical properties of boron-doped and undoped graphene oxide films. **2012**, 211-212, 369-377	68
1649	Functionalization of carbon and gold nanomaterials using PNIPAAm grafted dextran: a general route towards robust and smart nanomaterials. **2012**, 22, 11290	8

1648	Hydrothermal aggregation induced crystallization: a facial route towards polycrystalline graphite quantum dots with blue photoluminescence. **2012**, 14, 7149	11
1647	ZnOBi2O3/graphene oxide photocatalyst with high photocatalytic performance under visible light. **2012**, 27, 278-283	15
1646	Optical Spectroscopy Investigation of the Structural and Electrical Evolution of Controllably Oxidized Graphene by a Solution Method. **2012**, 116, 10702-10707	21
1645	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. **2012**, 22, 3606	46
1644	Quenching of fluorescence of reduced graphene oxide by nitrogen-doping. **2012**, 100, 233112	40
1643	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. **2012**, 6, 8060-6	34
1642	Highly fluorescent graphene oxide-poly(vinyl alcohol) hybrid: an effective material for specific Au3+ ion sensors. **2012**, 4, 5576-82	119
1641	Evidence for spin-flip scattering and local moments in dilute fluorinated graphene. **2012**, 108, 226602	101
1640	Field-effect transistors based on thermally treated electron beam-induced carbonaceous patterns. **2012**, 4, 1030-6	10
1639	Graphene oxide: preparation, functionalization, and electrochemical applications. **2012**, 112, 6027-53	2515
1638	Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. **2012**, 134, 15-8	1623
1637	Epoxy to Carbonyl Group Conversion in Graphene Oxide Thin Films: Effect on Structural and Luminescent Characteristics. **2012**, 116, 19010-19017	71
1636	Enhanced fluorescent intensity of graphene oxideethyl cellulose hybrid in acidic medium: Sensing of nitro-aromatics. **2012**, 22, 8139	57
1635	Photoluminescent carbogenic nanoparticles directly derived from crude biomass. **2012**, 14, 3141	60
1634	Emerging photoluminescence in azo-pyridine intercalated graphene oxide layers. **2012**, 4, 6562-7	43
1633	Graphene quantum dots with controllable surface oxidation, tunable fluorescence and up-conversion emission. **2012**, 2, 2717	337
1632	Graphene quantum dots derived from carbon fibers. **2012**, 12, 844-9	1779
1631	An efficient and stable fluorescent graphene quantum dotgar composite as a converting material in white light emitting diodes. **2012**, 22, 22378	150

1630	Fingerprinting photoluminescence of functional groups in graphene oxide. **2012**, 22, 23374		165
1629	Graphene: an emerging electronic material. *Advanced Materials*, **2012**, 24, 5782-825	24	603
1628	Observation of Multiphoton-Induced Fluorescence from Graphene Oxide Nanoparticles and Applications in In Vivo Functional Bioimaging. **2012**, 124, 10722-10727		10
1627	Observation of multiphoton-induced fluorescence from graphene oxide nanoparticles and applications in in vivo functional bioimaging. **2012**, 51, 10570-5		139
1626	Electrochemical preparation of luminescent graphene quantum dots from multiwalled carbon nanotubes. **2012**, 18, 12522-8		278
1625	Facile synthesis of highly emissive carbon dots from pyrolysis of glycerol; gram scale production of carbon dots/mSiO2 for cell imaging and drug release. **2012**, 22, 14403		283
1624	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon□arbon Cross Coupling Reactions. **2012**, 2, 145-154		253
1623	Graphene quantum dots: emergent nanolights for bioimaging, sensors, catalysis and photovoltaic devices. **2012**, 48, 3686-99		1627
1622	Heterogeneous Catalysis by Metal Nanoparticles Supported on Graphene. **2012**, 303-338		
1621	Hydrogenated Graphene as Metal-free Catalyst for Fenton-like Reaction. **2012**, 25, 335-338		19
1620	Synthesis and properties of graphene oxide/graphene nanostructures. **2012**, 60, 1789-1793		15
1619	Solar Photoconversion Using Graphene/TiO2 Composites: Nanographene Shell on TiO2 Core versus TiO2 Nanoparticles on Graphene Sheet. **2012**, 116, 1535-1543		272
1618	Graphene Oxides as Tunable Broadband Nonlinear Optical Materials for Femtosecond Laser Pulses. **2012**, 3, 785-90		175
1617	Interfacial electron transfer dynamics in dye-modified graphene oxide nanosheets studied by single-molecule fluorescence spectroscopy. **2012**, 14, 4244-9		15
1616	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. **2012**, 112, 6156-214		3041
1615	Defect-related luminescent materials: synthesis, emission properties and applications. **2012**, 41, 7938-61		211
1614	Indium tin oxide-coated glass modified with reduced graphene oxide sheets and gold nanoparticles as disposable working electrodes for dopamine sensing in meat samples. **2012**, 4, 4594-602		72
1613	Tailored graphene-encapsulated mesoporous Co3O4 composite microspheres for high-performance lithium ion batteries. **2012**, 22, 17278		108

1612	Graphene oxide/polyaniline nanostructures: transformation of 2D sheet to 1D nanotube and in situ reduction. **2012**, 48, 10862-4	74
1611	Synthesis and upconversion luminescence of N-doped graphene quantum dots. **2012**, 101, 103107	153
1610	One-step synthesis of amino-functionalized fluorescent carbon nanoparticles by hydrothermal carbonization of chitosan. **2012**, 48, 380-2	746
1609	A general strategy for the production of photoluminescent carbon nitride dots from organic amines and their application as novel peroxidase-like catalysts for colorimetric detection of H2O2 and glucose. **2012**, 2, 411-413	179
1608	Synthesis of highly luminescent graphitized carbon dots and the application in the Hg2+ detection. **2012**, 263, 481-485	88
1607	A graphene oxide based biosensor for microcystins detection by fluorescence resonance energy transfer. **2012**, 38, 31-6	44
1606	Carbon nanoscrolls by pyrolysis of a polymer. **2012**, 152, 2092-2095	8
1605	Aptamer-conjugated optical nanomaterials for bioanalysis. **2012**, 39, 72-86	42
1604	Preparation and characterization of graphene oxide nanosheets. **2012**, 32, 759-764	261
1603	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. **2012**, 116, 16251-16258	43
1602	Photochemical Engineering of Graphene Oxide Nanosheets. **2012**, 116, 19822-19827	104
1601	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse SnO2 nanoparticles onto graphene for lithium ion batteries. **2012**, 22, 2520-2525	113
1600	Spectroelectrochemical investigation of an electrogenerated graphitic oxide solid-electrolyte interphase. **2012**, 84, 8190-7	10
1599	"Turn-on" fluorescence detection of lead ions based on accelerated leaching of gold nanoparticles on the surface of graphene. **2012**, 4, 1080-6	123
1598	The origin of fluorescence from graphene oxide. **2012**, 2, 792	468
1597	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. **2012**, 22, 15522	94
1596	Nature of paramagnetic centers in anodic aluminum oxide formed in a solution of tartaric acid. **2012**, 86, 1630-1635	4
1595	Influence of pH on the fluorescence properties of graphene quantum dots using ozonation pre-oxide hydrothermal synthesis. **2012**, 22, 25471	166

1594	SHG/2PF microscopy of single and multi-layer graphene. **2012**,	2
1593	Near-infrared enhanced carbon nanodots by thermally assisted growth. **2012**, 101, 163107	29
1592	Unzipped multiwalled carbon nanotube oxide/multiwalled carbon nanotube hybrids for polymer reinforcement. **2012**, 4, 5956-65	44
1591	Nonlinear optical properties of graphene-based materials. **2012**, 57, 2971-2982	100
1590	Highly efficient polymer light-emitting diodes using graphene oxide as a hole transport layer. **2012**, 6, 2984-91	113
1589	Large scale electrochemical synthesis of high quality carbon nanodots and their photocatalytic property. **2012**, 41, 9526-31	567
1588	Magnetic-nanoparticle-doped carbogenic nanocomposite: an effective magnetic resonance/fluorescence multimodal imaging probe. **2012**, 8, 1099-109	46
1587	Extraordinary physical properties of functionalized graphene. **2012**, 8, 2138-51	153
1586	Graphene-based composites. **2012**, 41, 666-86	3116
1585	Control the size and surface chemistry of graphene for the rising fluorescent materials. **2012**, 48, 4527-39	356
1584	Photochemical reduction of graphene oxide in colloidal solution. **2012**, 48, 2-13	29
1583	Significant enhancement of blue emission and electrical conductivity of N-doped graphene. **2012**, 22, 17992	159
1582	Bioimaging of hyaluronic acid derivatives using nanosized carbon dots. **2012**, 13, 2554-61	141
1581	Novel Radiation-Induced Properties of Graphene and Related Materials. **2012**, 213, 1146-1163	63
1580	Emissive ZnO-graphene quantum dots for white-light-emitting diodes. **2012**, 7, 465-71	577
1579	Fabrication of reduced graphene oxide hybrid materials that exhibit strong fluorescence. **2012**, 22, 14868	11
1578	Investigation of charge-transfer complexes formation between photoluminescent graphene oxide and organic molecules. **2012**, 4, 405-7	11
1577	Easy synthesis and imaging applications of cross-linked green fluorescent hollow carbon nanoparticles. **2012**, 6, 400-9	409

1576	A Facile Microwave Avenue to Electrochemiluminescent Two-Color Graphene Quantum Dots. **2012**, 22, 2971-2979		670
1575	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Up-Conversion Bioimaging Applications. **2012**, 22, 4732-4740		900
1574	Color-tunable photoluminescent fullerene nanoparticles. *Advanced Materials*, **2012**, 24, 1999-2003	24	52
1573	Optically tunable amino-functionalized graphene quantum dots. *Advanced Materials*, **2012**, 24, 5333-8	24	667
1572	Tunable Photoluminescence from Graphene Oxide. **2012**, 124, 6766-6770		28
1571	Tunable photoluminescence from graphene oxide. **2012**, 51, 6662-6		520
1570	Formation mechanism of carbogenic nanoparticles with dual photoluminescence emission. **2012**, 134, 747-50		637
1569	Dual fluorescence of graphene oxide: a time-resolved study. **2012**, 116, 7308-13		60
1568	Transforming collagen wastes into doped nanocarbons for sustainable energy applications. **2012**, 14, 1689		49
1567	The pH dependence of the total fluorescence of graphite oxide. **2012**, 22, 849-55		41
1566	One pot synthesis of RGO/PbS nanocomposite and its near infrared photoresponse study. **2012**, 107, 995-1001		18
1565	ZnO decorated luminescent graphene as a potential gas sensor at room temperature. **2012**, 50, 385-394		284
1564	New insights into the density of states of graphene oxide using capacitive photocurrent spectroscopy. **2012**, 50, 808-814		24
1563	The reduction of graphene oxide. **2012**, 50, 3210-3228		3551
1562	Influence of N-doping on the structural and photoluminescence properties of graphene oxide films. **2012**, 50, 3799-3806		63
1561	Blue luminescent graphene quantum dots and graphene oxide prepared by tuning the carbonization degree of citric acid. **2012**, 50, 4738-4743		1265
1560	Advanced nanostructured photocatalysts based on reduced graphene oxide□TiO2 composites for degradation of diphenhydramine pharmaceutical and methyl orange dye. **2012**, 123-124, 241-256		234
1559	Synthesis of a graphene□arbon nanotube composite and its electrochemical sensing of hydrogen peroxide. **2012**, 59, 509-514		166

1558	Decorated graphene sheets for label-free DNA impedance biosensing. **2012**, 33, 1097-106		116
1557	Tunable photoluminescence of graphene oxide from near-ultraviolet to blue. **2012**, 74, 71-73		59
1556	Photoreduction of graphite oxide at different temperatures. **2012**, 7, 156-163		15
1555	Inkjet printing high-resolution, large-area graphene patterns by coffee-ring lithography. *Advanced Materials*, **2012**, 24, 436-40	24	138
1554	Investigation of Raman and photoluminescence studies of reduced graphene oxide sheets. **2012**, 106, 501-506		211
1553	Influence of Graphite Source on Chemical Oxidative Reactivity. **2013**, 25, 2944-2949		18
1552	Fabrication and characteristics of solution-processed graphene oxide/silicon heterojunction. **2013**, 7, 340-343		12
1551	Reduced carbon dots versus oxidized carbon dots: photo- and electrochemiluminescence investigations for selected applications. **2013**, 19, 6282-8		121
1550	Synthesis of a 3D graphite microball using a microfluidic droplet generator and its polymer composite with core-shell structure. **2013**, 13, 4006-10		23
1549	Enhanced conduction and charge-selectivity by N-doped graphene flakes in the active layer of bulk-heterojunction organic solar cells. **2013**, 6, 3000		113
1548	Luminescent graphene quantum dots fabricated by pulsed laser synthesis. **2013**, 64, 341-350		108
1547	The realistic domain structure of as-synthesized graphene oxide from ultrafast spectroscopy. **2013**, 135, 12468-74		58
1546	Remarkable improvements in the stability and thermal conductivity of graphite/ethylene glycol nanofluids caused by a graphene oxide percolation structure. **2013**, 42, 5866-73		26
1545	Role of deoxy group on the high concentration of graphene in surfactant/water media. **2013**, 3, 2369		44
1544	Electrolytic graphene oxide and its electrochemical properties. **2013**, 704, 233-241		26
1543	Self-assembled graphene quantum dots induced by cytochrome c: a novel biosensor for trypsin with remarkable fluorescence enhancement. **2013**, 5, 7776-9		131
1542	Applications of Nanomaterials in Sensors and Diagnostics. **2013**,		24
1541	The optoelectronic behaviour of carbon nanoparticles: evidence of the importance of the outer carbon shell. **2013**, 5, 7977-83		12

1540	Molecular theory of graphene oxide. **2013**, 15, 13304-22		27
1539	Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. **2013**, 7, 7207-12		152
1538	Fluorinated graphene oxide; a new multimodal material for biological applications. *Advanced Materials*, **2013**, 25, 5632-7	24	140
1537	Direct production of graphene nanosheets for near infrared photoacoustic imaging. **2013**, 7, 8147-57		85
1536	Photochemical reduction of graphite oxide. **2013**, 8, 1-22		16
1535	Electrochemiluminescence of blue-luminescent graphene quantum dots and its application in ultrasensitive aptasensor for adenosine triphosphate detection. **2013**, 47, 271-7		124
1534	Novel fluorescent carbonic nanomaterials for sensing and imaging. **2013**, 1, 042001		111
1533	Facile synthesis of reduced graphene oxide/selenium nanocomposites with orange red luminescence by in situ redox. **2013**, 111, 51-54		4
1532	Enhanced photoluminescence from zinc oxide by plasmonic resonance of reduced graphene oxide. **2013**, 114, 074903		17
1531	Synthesis and photoluminescence of three-dimensional europium-complexed graphene macroassembly. **2013**, 1, 5772		24
1530	Fluorescent sensing of cocaine based on a structure switching aptamer, gold nanoparticles and graphene oxide. **2013**, 138, 7152-6		51
1529	Highly photoluminescent amino-functionalized graphene quantum dots used for sensing copper ions. **2013**, 19, 13362-8		187
1528	Stabilization of graphene quantum dots (GQDs) by encapsulation inside zeolitic imidazolate framework nanocrystals for photoluminescence tuning. **2013**, 5, 10556-61		97
1527	Fabrication of graphene quantum dots via size-selective precipitation and their application in upconversion-based DSSCs. **2013**, 49, 9995-7		80
1526	Understanding the adsorptive and photoactivity properties of Ag-graphene oxide nanocomposites. **2013**, 263 Pt 1, 52-60		51
1525	Fluorescence resonance energy transfer from sulfonated graphene to riboflavin: a simple way to detect vitamin B2. **2013**, 5, 7392-9		40
1524	Conductivity of graphene oxide films: Dependence from solvents and photoreduction. **2013**, 583, 155-159		25
1523	Amphiphilic poly(N-vinyl pyrrolidone) grafted graphene by reversible addition and fragmentation polymerization and the reinforcement of poly(vinyl acetate) films. **2013**, 1, 10863		41

1522	Metal ion-directed solution-phase tailoring: from large-area graphene oxide into nanoscale pieces. **2013**, 8, 226		5
1521	Probing the electronic structure of multi-walled carbon nanotubes by transient optical transmittivity. **2013**, 57, 50-58		7
1520	Quantum confinement-induced tunable exciton states in graphene oxide. **2013**, 3, 2250		47
1519	Structural Evolution of Reduced Graphene Oxide of Varying Carbon sp2 Fractions Investigated via Coulomb Blockade Transport. **2013**, 117, 26776-26782		28
1518	Propagative Exfoliation of High Quality Graphene. **2013**, 25, 4487-4496		25
1517	Properties and applications of chemically functionalized graphene. **2013**, 25, 423201		75
1516	Oxidative synthesis of highly fluorescent boron/nitrogen co-doped carbon nanodots enabling detection of photosensitizer and carcinogenic dye. **2013**, 85, 10232-9		78
1515	Ag@Fe2O3-GO nanocomposites prepared by a phase transfer method with long-term antibacterial property. **2013**, 5, 11307-14		77
1514	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. **2013**, 117, 24991-24996		100
1513	Single-particle spectroscopic measurements of fluorescent graphene quantum dots. **2013**, 7, 10654-61		116
1512	Coal as an abundant source of graphene quantum dots. **2013**, 4, 2943		556
1511	Direct observation of spatially heterogeneous single-layer graphene oxide reduction kinetics. **2013**, 13, 5777-84		37
1510	Hair fiber as a precursor for synthesizing of sulfur- and nitrogen-co-doped carbon dots with tunable luminescence properties. **2013**, 64, 424-434		601
1509	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. **2013**, 1, 926-932		133
1508	Effect of humidity on the conductivity of graphite oxide during its photoreduction. **2013**, 47, 242-246		10
1507	Direct observation of quantum-confined graphene-like states and novel hybrid states in graphene oxide by transient spectroscopy. *Advanced Materials*, **2013**, 25, 6539-45	24	62
1506	Using graphene quantum dots as photoluminescent probes for protein kinase sensing. **2013**, 85, 9148-55		148
1505	In vivo imaging of tumour bearing near-infrared fluorescence-emitting carbon nanodots derived from tire soot. **2013**, 49, 10290-2		67

1504	A review of optical imaging and therapy using nanosized graphene and graphene oxide. **2013**, 34, 9519-34	137
1503	All carbon-based photodetectors: an eminent integration of graphite quantum dots and two dimensional graphene. **2013**, 3, 2694	78
1502	Transient absorption microscopy studies of energy relaxation in graphene oxide thin film. **2013**, 25, 144203	12
1501	Advances in Graphene-Based Fluorescent Sensors for Heavy Metals. **2013**, 791-793, 998-1001	
1500	Self-assembled long-chain organic ion grafted carbon dot ionic nanohybrids with liquid-like behavior and dual luminescence. **2013**, 37, 3857	6
1499	Lab-on-graphene: graphene oxide as a triple-channel sensing device for protein discrimination. **2013**, 49, 81-3	70
1498	Preparation of carbon nanodots from single chain polymeric nanoparticles and theoretical investigation of the photoluminescence mechanism. **2013**, 1, 580-586	132
1497	Focusing on luminescent graphene quantum dots: current status and future perspectives. **2013**, 5, 4015-39	1120
1496	Photoluminescent organosilane-functionalized carbon dots as temperature probes. **2013**, 49, 1639-41	127
1495	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. **2013**, 7, 1239-45	624
1494	Graphitic design: prospects of graphene-based nanocomposites for solar energy conversion, storage, and sensing. **2013**, 46, 2235-43	248
1493	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. **2013**, 42, 2824-60	941
1492	Interactions between fluorescence of atomically layered graphene oxide and metallic nanoparticles. **2013**, 5, 1687-91	6
1491	Graphene-Induced Adsorptive and Optical Artifacts During In Vitro Toxicology Assays. **2013**, 9, 1921-1927	37
1490	Enhanced hot-carrier luminescence in multilayer reduced graphene oxide nanospheres. **2013**, 3, 2315	14
1489	A new class of fluorescent-dots: long luminescent lifetime bio-dots self-assembled from DNA at low temperatures. **2013**, 3, 2957	52
1488	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. **2013**, 63, 45-53	17
1487	How do the electrical properties of graphene change with its functionalization?. **2013**, 9, 341-50	230

1486	Improvement of photoluminescence of graphene quantum dots with a biocompatible photochemical reduction pathway and its bioimaging application. **2013**, 5, 1174-9		202
1485	Identifying the fluorescence of graphene oxide. **2013**, 1, 338-342		102
1484	Synthesis and photoluminescence of fluorinated graphene quantum dots. **2013**, 102, 013111		90
1483	Nitrogen-doped carbon dots: a facile and general preparation method, photoluminescence investigation, and imaging applications. **2013**, 19, 2276-83		335
1482	Fluorescence of chemically derived graphene: Effect of self-rolling up and aggregation. **2013**, 136, 32-37		14
1481	Size distribution-controlled preparation of graphene oxide nanosheets with different C/O ratios. **2013**, 139, 8-11		30
1480	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. **2013**, 93, 161-164		57
1479	Graphene quantum dots combined with europium ions as photoluminescent probes for phosphate sensing. **2013**, 19, 3822-6		144
1478	New horizons for diagnostics and therapeutic applications of graphene and graphene oxide. *Advanced Materials*, **2013**, 25, 168-86	24	494
1477	The impact of functionalization on the stability, work function, and photoluminescence of reduced graphene oxide. **2013**, 7, 1638-45		209
1476	Intrinsic and Extrinsic Fluorescence in Carbon Nanodots: Ultrafast Time-Resolved Fluorescence and Carrier Dynamics. **2013**, 1, 173-178		126
1475	Graphene oxide/N-methyl-2-pyrrolidone charge-transfer complexes for molecular detection. **2013**, 176, 81-85		7
1474	Photo-induced free radical modification of graphene. **2013**, 9, 1134-43		24
1473	Nanostructured Materials for Environmentally Conscious Applications. **2013**, 59-72		2
1472	Synthesis of photoluminescent carbon nanoparticles from graphite. **2013**, 15, 1		4
1471	Graphene-Based Chemical and Biosensors. **2013**, 103-141		9
1470	Graphene-Based Optical and Electrochemical Biosensors: A Review. **2013**, 46, 1-17		60
1469	Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite. **2013**, 1, 6658		32

1468	Tuning the electrical and optical properties of graphene by ozone treatment for patterning monolithic transparent electrodes. **2013**, 7, 4233-41		76
1467	Nano-graphene oxide: a potential multifunctional platform for cancer therapy. **2013**, 2, 1072-90		128
1466	Unraveling Bright Molecule-Like State and Dark Intrinsic State in Green-Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. **2013**, 1, 264-271		122
1465	Enhanced conductivity of reduced graphene oxide decorated with aluminium oxide nanoparticles by oxygen annealing. **2013**, 5, 5725-31		13
1464	One stone, two birds: Gastrodia elata-derived heteroatom-doped carbon materials for efficient oxygen reduction electrocatalyst and as fluorescent decorative materials. **2013**, 2, 1261-1270		47
1463	Thiourea assisted one-pot easy synthesis of CdS/rGO composite by the wet chemical method: Structural, optical, and photocatalytic properties. **2013**, 39, 9207-9214		57
1462	Graphene oxide functionalized with methylene blue and its performance in singlet oxygen generation. **2013**, 48, 2636-2639		43
1461	UV protection of reduced graphene oxide films by TiO2 nanoparticle incorporation. **2013**, 5, 3638-42		32
1460	Photoluminescent nanographitic/nitrogen-doped graphitic hollow shells as a potential candidate for biological applications. **2013**, 1, 1229-1234		10
1459	Long lifetime pure organic phosphorescence based on water soluble carbon dots. **2013**, 49, 5751-3		347
1458	Ultrafast spectral migration of photoluminescence in graphene oxide. **2013**, 13, 344-9		56
1457	Quantum-dot-conjugated graphene as a probe for simultaneous cancer-targeted fluorescent imaging, tracking, and monitoring drug delivery. **2013**, 24, 387-97		146
1456	Fabrication of transparent, flexible conducing graphene thin films via soft transfer printing method. **2013**, 276, 437-446		23
1455	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. **2013**, 1, 554-558		112
1454	Simple synthesis of ultra-small nanodiamonds with tunable size and photoluminescence. **2013**, 62, 374-381		59
1453	Fabrication of highly fluorescent graphene quantum dots using L-glutamic acid for / imaging and sensing. **2013**, 1, 4676-4684		319
1452	Graphene-based materials for hydrogen generation from light-driven water splitting. *Advanced Materials*, **2013**, 25, 3820-39	24	608
1451	Tuning the Electronic Structure of Graphite Oxide through Ammonia Treatment for Photocatalytic Generation of H2 and O2 from Water Splitting. **2013**, 117, 6516-6524		136

1450	Fluorescent graphene quantum dots with a boronic acid appended bipyridinium salt to sense monosaccharides in aqueous solution. **2013**, 49, 5180-2		97
1449	Terahertz, optical, and Raman signatures of monolayer graphene behavior in thermally reduced graphene oxide films. **2013**, 113, 183502		17
1448	Exploring the Origin of Blue and Ultraviolet Fluorescence in Graphene Oxide. **2013**, 4, 2035-40		57
1447	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. **2013**, 30, 764-769		56
1446	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. **2013**, 125, 7954-7958		145
1445	Carbon-based dots co-doped with nitrogen and sulfur for high quantum yield and excitation-independent emission. **2013**, 52, 7800-4		1562
1444	Facile synthetic method for pristine graphene quantum dots and graphene oxide quantum dots: origin of blue and green luminescence. *Advanced Materials*, **2013**, 25, 3657-62	24	480
1443	Reduced graphene oxide: a promising electrode material for oxygen electrodes. **2013**, 3, 1		10
1442	Controllable Synthesis of Fluorescent Carbon Dots and Their Detection Application as Nanoprobes. **2013**, 5, 247-259		200
1441	A universal immunosensing strategy based on regulation of the interaction between graphene and graphene quantum dots. **2013**, 49, 234-6		137
1440	Recent advances in graphene quantum dots for sensing. **2013**, 16, 433-442		552
1439	Photochemical doping of graphene oxide with nitrogen for photoluminescence enhancement. **2013**, 103, 123108		25
1438	Optical and carrier transport properties of graphene oxide based crystalline-Si/organic Schottky junction solar cells. **2013**, 114, 234506		3
1437	Fabrication of reduced graphene oxide**B**iOCl hybrid material via a novel benzyl alcohol route and its enhanced photocatalytic activity. **2013**, 15, 1		30
1436	Quenching the chemiluminescence of acridinium ester by graphene oxide for label-free and homogeneous DNA detection. **2013**, 5, 11336-40		52
1435	Photoluminescence properties of graphene versus other carbon nanomaterials. **2013**, 46, 171-80		623
1434	Tunable Optical Properties of Graphene Quantum Dots by Centrifugation. **2013**,		0
1433	Blue and UV fluorescence of biological fluids and carbon nanodots. **2013**,		0

1432	Oxidation of CVD Growth Single-Layer Graphene. **2013**, 790, 7-10	1
1431	Graphite Oxide. **2013**, 571-604	
1430	Graphene oxide-reinforced biodegradable genipin-cross-linked chitosan fluorescent biocomposite film and its cytocompatibility. **2013**, 8, 3415-26	53
1429	Solvent-free Synthesis of Flowable Carbon Clusters with Customizable Size and Tunable Optical Performance. **2013**, 31, 1513-1518	3
1428	Transient thermal effect, nonlinear refraction and nonlinear absorption properties of graphene oxide sheets in dispersion. **2013**, 21, 7511-20	85
1427	Graphene-Based Materials in Gas Sensors. **2013**, 91-132	
1426	Recent Progress in Optical Biosensors for Environmental Applications. **2013**,	2
1425	Electronic structure and aromaticity of large-scale hexagonal graphene nanoflakes. **2014**, 141, 214704	38
1424	Ordered conjugated polymer nano- and microstructures: Structure control for improved performance of organic electronics. **2014**, 9, 705-721	29
1423	From highly graphitic to amorphous carbon dots: A critical review. **2014**, 1, 1	33
1422	Facile synthesis and photoluminescence mechanism of graphene quantum dots. **2014**, 116, 244306	30
1421	Study on the Preparation and Fluorescence Performance of Graphene Oxide. **2014**, 1058, 61-64	
1420	Preparation of BiVO4-Graphene Nanocomposites and Their Photocatalytic Activity. **2014**, 2014, 1-6	5
1419	Photoluminescence study in diaminobenzene functionalized graphene oxide. **2014**,	3
1418	The impact of carbon sp2 fraction of reduced graphene oxide on the performance of reduced graphene oxide contacted organic transistors. **2014**, 105, 223301	26
1417	Surface plasmon enhanced photoluminescence of ZnO nanorods by capping reduced graphene oxide sheets. **2014**, 22, 11436-45	45
1416	Tunable optical properties of graphene oxide by tailoring the oxygen functionalities using infrared irradiation. **2014**, 25, 495704	55
1415	Optoelectronic and nonlinear optical properties of triarylamine helicenes: a DFT study. **2014**, 20, 2535	22

1414	Silver nanowires effect on photoluminescence of ZnO films deposited on different substrates with graphene oxide paper. **2014**,	
1413	Micro x-ray photoemission and Raman spectroscopic studies on bandgap tuning of graphene oxide achieved by solid state ionics device. **2014**, 105, 183101	20
1412	Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. **2014**, 118, 27301-27307	18
1411	Efficient solution-processed small-molecule solar cells by insertion of graphene quantum dots. **2014**, 6, 15175-80	23
1410	Vacancy filling effect of graphene on photoluminescence behavior of ZnO/graphene nanocomposite. **2014**, 8, 836-840	8
1409	Visible-Light-Stimulated Enzymelike Activity of Graphene Oxide and Its Application for Facile Glucose Sensing. **2014**, 118, 28109-28117	67
1408	Blue Luminescent Graphene Quantum Dots by Photochemical Stitching of Small Aromatic Molecules: Fluorescent Nanoprobes in Cellular Imaging. **2014**, 31, 433-438	52
1407	A comparative analysis of graphene oxide films as proton conductors. **2014**, 117, 1859-1863	12
1406	Mn2+-mediated energy transfer process as a versatile origin of photoluminescence in graphene oxide. **2014**, 4, 54832-54836	1
1405	Luminescent Graphene Oxide with a Peptide-Quencher Complex for Optical Detection of Cell-Secreted Proteases by a Turn-On Response. **2014**, 24, 5119-5128	35
1404	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. **2014**, 24, 2689-2695	171
1403	Conjugated Carbon Radicals at Graphene Oxide to Initiate Ultrastrong Chemiluminescence. **2014**, 126, 10273-10277	8
1402	Simple and Eco-Friendly Hydrothermal Synthesis of Luminescent Carbon Nanoparticles for H2O2 Detection. **2014**, 997, 791-794	
1401	Study on formation and photoluminescence of carbon nanowalls grown on silicon substrates by hot filament chemical vapor deposition. **2014**, 149, 258-263	10
1400	An ultrasensitive quenched electrochemiluminescent immunoassay based on the peroxidase-like activity of ZnFe2O4@Au nanoparticles. **2014**, 201, 196-203	15
1399	Carbon dots with tunable emission, controllable size and their application for sensing hypochlorous acid. **2014**, 151, 100-105	64
1398	Synthesis and luminescence of graphene-nano calcium sulphide composite. **2014**, 147, 57-64	8
1397	Enhanced fluorescence of graphene oxide by well-controlled Au@SiO2 core-shell nanoparticles. **2014**, 24, 137-41	14

1396	A comparison study between ZnO nanorods coated with graphene oxide and reduced graphene oxide. **2014**, 582, 29-32		38
1395	Decoration of surface-carboxylated graphene oxide with luminescent Sm3+-complexes. **2014**, 49, 2672-2679		23
1394	Synthesis of chemically controllable and electrically tunable graphene films by simultaneously fluorinating and reducing graphene oxide. **2014**, 72, 176-184		34
1393	Multifunctional carbon dots with high quantum yield for imaging and gene delivery. **2014**, 67, 508-513		173
1392	A general quantitative pH sensor developed with dicyandiamide N-doped high quantum yield graphene quantum dots. **2014**, 6, 3868-74		309
1391	Graphene Quantum Dots. **2014**, 31, 415-428		616
1390	Water-soluble highly fluorinated graphite oxide. **2014**, 4, 1378-1387		58
1389	Reversible surface wettability conversion of graphene films: optically controlled mechanism. **2014**, 49, 3025-3033		10
1388	Graphene oxide from silk cocoon: a novel magnetic fluorophore for multi-photon imaging. **2014**, 4, 67-75		22
1387	Amino-functionalized graphene quantum dots: origin of tunable heterogeneous photoluminescence. **2014**, 6, 3384-91		204
1386	Reduced graphene oxide-cuprous oxide hybrid nanopowders: Hydrothermal synthesis and enhanced photocatalytic performance under visible light irradiation. **2014**, 23, 78-84		10
1385	Role of edge geometry and magnetic interaction in opening bandgap of low-dimensional graphene. **2014**, 15, 958-65		6
1384	Flexible TCO-free counter electrode for dye-sensitized solar cells using graphene nanosheets from a Ti□i(III) acid solution. **2014**, 66, 150-158		13
1383	Nitrogen-doped graphene oxide quantum dots as photocatalysts for overall water-splitting under visible light illumination. *Advanced Materials*, **2014**, 26, 3297-303	24	642
1382	Nanomechanical and Charge Transport Properties of Two-Dimensional Atomic Sheets. **2014**, 1, 1300089		28
1381	Tuning photoluminescence of reduced graphene oxide quantum dots from blue to purple. **2014**, 115, 164307		34
1380	DFT study of optical properties of pure and doped graphene. **2014**, 62, 28-35		107
1379	The photo-electrochemical studies of Eu3+ doped yttrium orthovanadate□inc oxide□educed graphene oxide nanohybrid. **2014**, 144, 529-537		2

1378	Graphene-based sensors for detection of heavy metals in water: a review. **2014**, 406, 3957-75		134
1377	Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. **2014**, 4, 21101		52
1376	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. **2014**, 6, 468-76		85
1375	Carbon-Dot-Decorated Nanodiamonds. **2014**, 31, 580-590		33
1374	Versatile Graphene Quantum Dots with Tunable Nitrogen Doping. **2014**, 31, 597-604		105
1373	Oxidation debris in graphene oxide is responsible for its inherent electroactivity. **2014**, 8, 4197-204		67
1372	Cohesive-energy-resolved bandgap of nanoscale graphene derivatives. **2014**, 15, 2563-8		1
1371	Sensitive Pb(2+) probe based on the fluorescence quenching by graphene oxide and enhancement of the leaching of gold nanoparticles. **2014**, 6, 2568-75		47
1370	In situ third-order non-linear responses during laser reduction of graphene oxide thin films towards on-chip non-linear photonic devices. *Advanced Materials*, **2014**, 26, 2699-703	24	86
1369	Effect of size variation on the cathodoluminescence characteristics of graphene quantum dots. **2014**, 14, S111-S114		3
1368	Single-step preparation of fluorescent carbon nanoparticles, and their application as a fluorometric probe for quercetin. **2014**, 181, 1309-1316		24
1367	Highly soluble polyetheramine-functionalized graphene oxide and reduced graphene oxide both in aqueous and non-aqueous solvents. **2014**, 75, 149-160		32
1366	Carbon Dots with Continuously Tunable Full-Color Emission and Their Application in Ratiometric pH Sensing. **2014**, 26, 3104-3112		669
1365	Biological applications of carbon dots. **2014**, 57, 522-539		64
1364	Scalable enhancement of graphene oxide properties by thermally driven phase transformation. **2014**, 6, 151-8		261
1363	Photoluminescence investigation about zinc oxide with graphene oxide & reduced graphene oxide buffer layers. **2014**, 416, 289-93		16
1362	Charge-transfer complexes: new perspectives on an old class of compounds. **2014**, 2, 3065-3076		289
1361	Origin of strong excitation wavelength dependent fluorescence of graphene oxide. **2014**, 8, 1002-13		280

1360	Exciton characteristics in graphene epoxide. **2014**, 8, 1284-9	27
1359	Nitrogen-doped carbon quantum dots: facile synthesis and application as a "turn-off" fluorescent probe for detection of Hg2+ ions. **2014**, 55, 83-90	653
1358	Swarming carbon dots for folic acid mediated delivery of doxorubicin and biological imaging. **2014**, 2, 698-705	150
1357	Solvothermally exfoliated fluorographene for high-performance lithium primary batteries. **2014**, 6, 2634-41	127
1356	Highly transparent and conducting graphene-embedded ZnO films with enhanced photoluminescence fabricated by aerosol synthesis. **2014**, 25, 085701	8
1355	Spectral Migration of Fluorescence in Graphene Oxide Aqueous Dispersions: Evidence for Excited-State Proton Transfer. **2014**, 5, 1-7	30
1354	Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. **2014**, 66, 334-339	108
1353	Enhanced visible photoluminescence emission from multiple face-contact-junction ZnO nanorods coated with graphene oxide sheets. **2014**, 115, 214304	14
1352	Correlated Optical and Magnetic Properties in Photoreduced Graphene Oxide. **2014**, 118, 28258-28265	19
1351	Comparison of the conductivities of graphene oxide and phenol-2,4-disulfo acid-polyvinyl alcohol composite films. **2014**, 50, 999-1002	
1350	The role of ozone in the ozonation process of graphene oxide: oxidation or decomposition?. **2014**, 4, 58325-58328	30
1349	Phototherapeutic functionality of biocompatible graphene oxide/dendrimer hybrids. **2014**, 121, 469-73	20
1348	Thermoresponsive fluorescence of a graphene-polymer composite based on a local surface plasmon resonance effect. **2014**, 16, 11584-9	11
1347	Highly photostable and biocompatible graphene oxides with amino acid functionalities. **2014**, 2, 7126	11
1346	A deep ultraviolet to near-infrared photoresponse from glucose-derived graphene oxide. **2014**, 2, 6971-6977	34
1345	Photoluminescence study of optically active diaminopyridine intercalated graphene oxide. **2014**, 4, 50542-50548	10
1344	Tuning the nonlinear optical absorption of reduced graphene oxide by chemical reduction. **2014**, 22, 19375-85	58
1343	Molecular level controlled fabrication of highly transparent conductive reduced graphene oxide/silver nanowire hybrid films. **2014**, 4, 43270-43277	12

1342	Red-green-blue fluorescent hollow carbon nanoparticles isolated from chromatographic fractions for cellular imaging. **2014**, 6, 8162-70	82
1341	Facile preparation of gadolinium(iii) chelates functionalized carbon quantum dot-based contrast agent for magnetic resonance/fluorescence multimodal imaging. **2014**, 2, 5541-5549	38
1340	Fabrication and enhanced visible-light photocatalytic activities of BiVO4/Bi2WO6 composites. **2014**, 4, 46054-46059	60
1339	Facile Access to White Fluorescent Carbon Dots toward Light-Emitting Devices. **2014**, 53, 6417-6425	138
1338	Bright Green Photoluminescence in Aminoazobenzene-Functionalized Graphene Oxide. **2014**, 118, 6972-6979	44
1337	Direct synthesis of graphene quantum dots on hexagonal boron nitride substrate. **2014**, 2, 3717-3722	19
1336	Fluorescence from graphene oxide and the influence of ionic, □□nteractions and heterointerfaces: electron or energy transfer dynamics. **2014**, 16, 21183-203	35
1335	Ab initiostudy of structural and electronic properties of partially reduced graphene oxide. **2014**, T162, 014019	7
1334	High-yield synthesis of graphene quantum dots with strong green photoluminescence. **2014**, 4, 50141-50144	76
1333	Electrostatic self-assembly of BiVO4-reduced graphene oxide nanocomposites for highly efficient visible light photocatalytic activities. **2014**, 6, 12698-706	136
1332	Ultra-bright alkylated graphene quantum dots. **2014**, 6, 12635-43	21
1331	Electrochemiluminescence resonance energy transfer between graphene quantum dots and gold nanoparticles for DNA damage detection. **2014**, 139, 2404-10	89
1330	Better understanding of carbon nanoparticles via high-performance liquid chromatography-fluorescence detection and mass spectrometry. **2014**, 35, 2454-62	31
1329	Hot carriers in epitaxial graphene sheets with and without hydrogen intercalation: role of substrate coupling. **2014**, 6, 10562-8	4
1328	Turn-on fluorescence sensor for intracellular imaging of glutathione using g-C□□nanosheet-MnO□ sandwich nanocomposite. **2014**, 86, 3426-34	331
1327	Chaos to order: an eco-friendly way to synthesize graphene quantum dots. **2014**, 4, 43160-43165	7
1326	First principles study of fluorine substitution on two-dimensional germanane. **2014**, 26, 335302	11
1325	Growth, photoluminescence and thermal conductance of graphene-like nanoflakes grown on copper foils in methane environment. **2014**, 27, 97-102	2

1324	A facile one-pot method to Au–SnO 2 -graphene ternary hybrid. **2014**, 59, 77-83	3
1323	Chemically tailoring coal to fluorescent carbon dots with tuned size and their capacity for Cu(II) detection. **2014**, 10, 4926-33	157
1322	High photoluminescent carbon nanodots and quercetin-Al3+ construct a ratiometric fluorescent sensing system. **2014**, 77, 1148-1156	68
1321	Hair-derived carbon dots toward versatile multidimensional fluorescent materials. **2014**, 2, 6477-6483	116
1320	Finely tuning oxygen functional groups of graphene materials and optimizing oxygen levels for capacitors. **2014**, 4, 36377	25
1319	Environment-dependent photon emission from solid state carbon dots and its mechanism. **2014**, 6, 10388-93	79
1318	Preparation of functionalized water-soluble photoluminescent carbon quantum dots from petroleum coke. **2014**, 78, 480-489	171
1317	Femtosecond pump–probe spectroscopy of graphene oxide in water. **2014**, 47, 094008	21
1316	Graphene nanosheets functionalized with 4-aminothiophenol as a stable support for the oxidation of formic acid based on self-supported Pd-nanoclusters via galvanic replacement from Cu2O nanocubes. **2014**, 731, 20-27	11
1315	Fluorescent carbon nanomaterials: "quantum dots" or nanoclusters?. **2014**, 16, 16075-84	133
1314	Efficient synthesis of graphene–multiwalled carbon nanotubes nanocomposite and its application in electrochemical sensing of diethylstilbestrol. **2014**, 731, 84-92	29
1313	Nitrogen and sulfur co-doped carbon dots with strong blue luminescence. **2014**, 6, 13817-23	392
1312	Large-scale solvothermal synthesis of fluorescent carbon nanoparticles. **2014**, 25, 395601	7
1311	Carbon dots—emerging light emitters for bioimaging, cancer therapy and optoelectronics. **2014**, 9, 590-603	655
1310	Synthesis of nickel nanosheet/graphene composites for biosensor applications. **2014**, 79, 636-645	24
1309	Revealing the tunable photoluminescence properties of graphene quantum dots. **2014**, 2, 6954-6960	398
1308	One pot synthesis of graphene quantum disks derived from single-layered exfoliated graphene sheets and their application in bioimaging. **2014**, 4, 25916	6
1307	Trap states in chemically derived graphene oxide revealed by anomalous temperature-dependent photoluminescence. **2014**, 4, 18141	9

1306	Synthesis of BiVO4 nanosheets-graphene composites toward improved visible light photoactivity. **2014**, 23, 564-574	28
1305	Physiochemical and optical properties of chitosan based graphene oxide bionanocomposite. **2014**, 70, 559-64	70
1304	Excitonic Photoluminescence from Nanodisc States in Graphene Oxides. **2014**, 5, 1754-9	47
1303	Highly photoluminescent carbon dots-based fluorescent chemosensors for sensitive and selective detection of mercury ions and application of imaging in living cells. **2014**, 192, 488-495	230
1302	Graphene quantum dots, graphene oxide, carbon quantum dots and graphite nanocrystals in coals. **2014**, 6, 7410-5	170
1301	Carbon-based quantum dots for fluorescence imaging of cells and tissues. **2014**, 4, 10791	253
1300	Single-particle fluorescence intensity fluctuations of carbon nanodots. **2014**, 14, 620-5	155
1299	Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. **2014**, 2, 983-989	59
1298	Tunable photoluminescence and spectrum split from fluorinated to hydroxylated graphene. **2014**, 6, 3316-24	80
1297	One-pot green synthesis of high quantum yield oxygen-doped, nitrogen-rich, photoluminescent polymer carbon nanoribbons as an effective fluorescent sensing platform for sensitive and selective detection of silver(I) and mercury(II) ions. **2014**, 86, 7436-45	117
1296	Synthesis and nonlinear optical properties of reduced graphene oxide hybrid material covalently functionalized with zinc phthalocyanine. **2014**, 77, 1020-1030	112
1295	Highly oxidized graphene with enhanced fluorescence and its direct fluorescence visualization. **2014**, 57, 605-614	7
1294	Graphene meets biology. **2014**, 59, 1341-1354	17
1293	Multiband photoluminescence from carbon nanoflakes synthesized by hot filament CVD: towards solid-state white light sources. **2014**, 2, 2851-2858	16
1292	On the pH sensitive optoelectronic properties of amphiphilic reduced graphene oxide via grafting of poly(dimethylaminoethyl methacrylate): a signature of p- and n-type doping. **2014**, 2, 16039-16050	23
1291	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. **2014**, 2, 1016-1023	199
1290	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
1289	Econjugated carbon radicals at graphene oxide to initiate ultrastrong chemiluminescence. **2014**, 53, 10109-13	84

1288	Photophysical properties and singlet oxygen generation efficiencies of water-soluble fullerene nanoparticles. **2014**, 90, 997-1003		24
1287	Novel graphene-based nanostructures: physicochemical properties and applications. **2014**, 83, 251-279		34
1286	In situ and non-volatile bandgap tuning of multilayer graphene oxide in an all-solid-state electric double-layer transistor. *Advanced Materials*, **2014**, 26, 1087-91	24	70
1285	Boron-doped graphene quantum dots for selective glucose sensing based on the "abnormal" aggregation-induced photoluminescence enhancement. **2014**, 86, 4423-30		281
1284	Fluorescent Nanoprobes. **2014**, 49-74		
1283	A dual-fluorescent composite of graphene oxide and poly(3-hexylthiophene) enables the ratiometric detection of amines. **2014**, 5, 3130		38
1282	Science and Engineering of Graphene Oxide. **2014**, 31, 619-638		29
1281	Investigation of photoluminescence mechanism of graphene quantum dots and evaluation of their assembly into polymer dots. **2014**, 77, 462-472		105
1280	Highly fluorescent graphene oxide as a facile and novel sensor for the determination of hypochlorous acid. **2014**, 202, 667-673		19
1279	One-pot synthesis of N-doped graphene quantum dots as a fluorescent sensing platform for Fe3+ ions detection. **2014**, 202, 568-573		136
1278	Photoluminescence of nanoporous carbons: Opening a new application route for old materials. **2014**, 77, 651-659		24
1277	Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. **2014**, 77, 244-254		51
1276	Highly selective detection of trinitrophenol by luminescent functionalized reduced graphene oxide through FRET mechanism. **2014**, 6, 10722-8		148
1275	The mechanism of blue photoluminescence from carbon nanodots. **2014**, 16, 4981-4986		45
1274	Novel Optical Nanoprobes for Chemical and Biological Analysis. **2014**,		4
1273	One-pot synthesis of reduced graphene oxide supported PtCuy catalysts with enhanced electro-catalytic activity for the methanol oxidation reaction. **2014**, 136, 292-300		45
1272	Shaping graphene oxide by electrochemistry: From foams to self-assembled molecular materials. **2014**, 77, 405-415		26
1271	A highly efficient synthetic process of graphene films with tunable optical properties. **2014**, 314, 71-77		21

1270	On the photoactivity of S-doped nanoporous carbons: Importance of surface chemistry and porosity. **2014**, 35, 807-814	10
1269	A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. **2014**, 76, 193-202	123
1268	Work Function Engineering of Graphene. **2014**, 4, 267-300	183
1267	Analysis of energy gap opening in graphene oxide. **2014**, 526, 012003	8
1266	Morphology-controllable synthesis of carbon nanomaterials directly on Al2O3 substrates, and their photoluminescence. **2015**, 5, 89900-89905	2
1265	In-vitro cytotoxicity assessment of carbon-nanodot-conjugated Fe-aminoclay (CD-FeAC) and its bio-imaging applications. **2015**, 13, 88	12
1264	New Nanoscale Material: Graphene Quantum Dots. **2015**, 141-194	3
1263	The emission wavelength dependent photoluminescence lifetime of the N-doped graphene quantum dots. **2015**, 107, 241905	29
1262	Emission switching in carbon dots coated CdTe quantum dots driving by pH dependent hetero-interactions. **2015**, 107, 203108	11
1261	Investigation of temperature-dependent photoluminescence in multi-quantum wells. **2015**, 5, 12718	48
1260	Single Nanoparticle Mass Spectrometry as a High Temperature Kinetics Tool: Sublimation, Oxidation, and Emission Spectra of Hot Carbon Nanoparticles. **2015**, 119, 12538-50	10
1259	Reduced Graphene Oxide/Carbon Nanotube/Gold Nanoparticles Nanocomposite Functionalized Screen-Printed Electrode for Sensitive Electrochemical Detection of Endocrine Disruptor Bisphenol A. **2015**, 27, 2527-2536	41
1258	Visible fluorescence of biological fluids as a renal failure marker: New integrative approach. **2015**, 08, 1550030	1
1257	CuN Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. **2015**, 127, 6640-6644	34
1256	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. **2015**, 25, 4929-4947	885
1255	Cu-N dopants boost electron transfer and photooxidation reactions of carbon dots. **2015**, 54, 6540-4	169
1254	Capillary electrophoretic study of green fluorescent hollow carbon nanoparticles. **2015**, 36, 2110-9	15
1253	Rupturing C60 Molecules into Graphene-Oxide-like Quantum Dots: Structure, Photoluminescence, and Catalytic Application. **2015**, 11, 5296-304	33

1252	An Atomistic Tomographic Study of Oxygen and Hydrogen Atoms and their Molecules in CVD Grown Graphene. **2015**, 11, 5968-74	11
1251	Reduction of graphene oxide by resveratrol: a novel and simple biological method for the synthesis of an effective anticancer nanotherapeutic molecule. **2015**, 10, 2951-69	105
1250	Graphene-based nanomaterials for versatile imaging studies. **2015**, 44, 4835-52	154
1249	Phenylboronic acid-modified magnetic nanoparticles as a platform for carbon dot conjugation and doxorubicin delivery. **2015**, 3, 5532-5543	23
1248	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. **2015**, 115, 4744-822	1137
1247	NIR light induced H2 evolution by a metal-free photocatalyst. **2015**, 51, 10899-902	95
1246	Highly efficient and excitation tunable two-photon luminescence platform for targeted multi-color MDRB imaging using graphene oxide. **2014**, 4, 6090	28
1245	Green Synthesis for Advanced Materials of Graphene Oxide (GO) with ZnO for Enhanced Photocatalytic Activity at Room Temperature. **2015**, 115-127	
1244	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. **2015**, 115, 10816-906	902
1243	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. **2015**, 6, 7157	47
1242	Graphene Nanocomposites in Optoelectronics. **2015**, 131-156	0
1241	Carbon Dots: From Intense Absorption in Visible Range to Excitation-Independent and Excitation-Dependent Photoluminescence. **2015**, 23, 922-929	28
1240	Photochemistry of Graphene. **2015**, 213-238	
1239	Multiple doping of graphene oxide foams and quantum dots: new switchable systems for oxygen reduction and water remediation. **2015**, 3, 14334-14347	51
1238	Photofunctional Layered Materials. **2015**,	8
1237	Graphene Oxide. **2015**,	61
1236	Spectroscopy and Microscopy of Graphene Oxide and Reduced Graphene Oxide. **2015**, 29-60	4
1235	Pristine reduced graphene oxide as an energy-matched auxiliary electron acceptor in nanoarchitectural metal oxide/poly(3-hexylthiophene) hybrid solar cell. **2015**, 293, 246-252	20

1234	Curcumin-reduced graphene oxide sheets and their effects on human breast cancer cells. **2015**, 55, 482-9	91
1233	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. **2015**, 2, 032004	106
1232	Carbon dots isolated from chromatographic fractions for sensing applications. **2015**, 5, 106838-106847	7
1231	Graphene oxide liquid crystals: synthesis, phase transition, rheological property, and applications in optoelectronics and display. **2015**, 10, 435	51
1230	The carbonization of polyethyleneimine: facile fabrication of N-doped graphene oxide and graphene quantum dots. **2015**, 5, 105855-105861	14
1229	On the origin and tunability of blue and green photoluminescence from chemically derived graphene: Hydrogenation and oxygenation studies. **2015**, 95, 228-238	34
1228	A quick and easy synthesis of fluorescent iron oxide nanoparticles featuring a luminescent carbonaceous coating via in situ pyrolysis of organosilane ligands. **2015**, 5, 100384-100389	8
1227	A General Method Towards Efficient Synthesis and Fluorescence Tuning of Carbon Black-Derived Carbon Dots via Controlled Liquid Oxidization. **2015**, 68, 1446	2
1226	A Review of Hydrophilization of Oxidized Nanocarbons. **2015**, 25-41	1
1225	Facile Microwave-Assisted Solid-Phase Synthesis of Highly Fluorescent Nitrogen-Sulfur-Codoped Carbon Quantum Dots for Cellular Imaging Applications. **2015**, 21, 13004-11	77
1224	Tailoring color emissions from N-doped graphene quantum dots for bioimaging applications. **2015**, 4, e364-e364	308
1223	Strongly Nonlinear Dependence of Energy Transfer Rate on sp(2) Carbon Content in Reduced Graphene Oxide-Quantum Dot Hybrid Structures. **2015**, 6, 44-7	10
1222	Facile synthesis of nitrogen-doped carbon dots for Fe(3+) sensing and cellular imaging. **2015**, 861, 74-84	225
1221	Optical and electrochemical applications of silicon-carbon dots/silicon dioxide nanocomposites. **2015**, 9, 312-9	51
1220	Fluorescence Origin of Nanodiamonds. **2015**, 119, 2239-2248	67
1219	Temperature dependent photoluminescence study on ZnO/Graphene nanocomposite films. **2015**, 15, 563-566	4
1218	Modulation of electrochemical property of carbon nanodot by post-chemical reductions. **2015**, 470, 15-21	3
1217	Synergistic effect of oxygen and nitrogen functionalities for graphene-based quantum dots used in photocatalytic H 2 production from water decomposition. **2015**, 12, 476-485	114

1216	A simple strategy for synthesizing highly luminescent carbon nanodots and application as effective down-shifting layers. **2015**, 26, 065402	17
1215	Direct imaging of charge transport in progressively reduced graphene oxide using electrostatic force microscopy. **2015**, 9, 2981-8	28
1214	Versatile photoluminescence from graphene and its derivatives. **2015**, 88, 86-112	64
1213	Luminescent properties of a water-soluble conjugated polymer incorporating graphene-oxide quantum dots. **2015**, 16, 1258-62	18
1212	In situ and nonvolatile photoluminescence tuning and nanodomain writing demonstrated by all-solid-state devices based on graphene oxide. **2015**, 9, 2102-10	33
1211	Photochemical transformation of graphene oxide in sunlight. **2015**, 49, 3435-43	158
1210	Fluorescent graphene oxide via polymer grafting: an efficient nanocarrier for both hydrophilic and hydrophobic drugs. **2015**, 7, 3512-23	66
1209	Purified dispersions of graphene in a nonpolar solvent via solvothermal reduction of graphene oxide. **2015**, 51, 3824-7	14
1208	Facile synthesis of biocompatible N, S-doped carbon dots for cell imaging and ion detecting. **2015**, 5, 16368-16375	39
1207	Physicochemical properties of hybrid graphene□ead sulfide quantum dots prepared by supercritical ethanol. **2015**, 17, 1	34
1206	Graphene oxide-based optical biosensor functionalized with peptides for explosive detection. **2015**, 68, 494-499	45
1205	Transparent conductive reduced graphene oxide thin films produced by spray coating. **2015**, 58, 1-5	20
1204	In-situ preparation of N-TiO2/graphene nanocomposite and its enhanced photocatalytic hydrogen production by H2S splitting under solar light. **2015**, 7, 5023-34	87
1203	Fundamental of Graphene. **2015**, 1-48	5
1202	Graphene Derivatives in Photocatalysis. **2015**, 249-276	0
1201	Electrochemical synthesis of small-sized red fluorescent graphene quantum dots as a bioimaging platform. **2015**, 51, 2544-6	236
1200	Structure and photoluminescence of films composed of carbon nanoflakes. **2015**, 161, 7-13	4
1199	pH-driven, reversible epoxy ring opening/closing in graphene oxide. **2015**, 84, 560-566	53

1198	Simple and Efficient Synthesis of Strongly Green Fluorescent Carbon Dots with Upconversion Property for Direct Cell Imaging. **2015**, 32, 542-546		29
1197	Photoluminescence-tunable carbon nanodots: surface-state energy-gap tuning. *Advanced Materials*, **2015**, 27, 1663-7	24	528
1196	The photoluminescence mechanism in carbon dots (graphene quantum dots, carbon nanodots, and polymer dots): current state and future perspective. **2015**, 8, 355-381		1623
1195	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. **2015**, 7, 5468-75		46
1194	The effects of central metals on the photophysical and nonlinear optical properties of reduced graphene oxide-metal(II) phthalocyanine hybrids. **2015**, 17, 7149-57		37
1193	Reduction of graphene oxide film with poly (vinyl alcohol). **2015**, 625, 36-40		8
1192	An efficient edge-functionalization method to tune the photoluminescence of graphene quantum dots. **2015**, 7, 5969-73		55
1191	Valorization of cellulose and waste paper to graphene oxide quantum dots. **2015**, 5, 26550-26558		53
1190	Montmorillonite/graphene oxide/chitosan composite: Synthesis, characterization and properties. **2015**, 79, 923-33		43
1189	Electronic and optical properties of reduced graphene oxide. **2015**, 3, 7632-7641		53
1188	Preparation of efficient visible-light-driven BiOBr/Bi2O3 heterojunction composite with enhanced photocatalytic activities. **2015**, 649, 474-482		64
1187	Graphenol defects induced blue emission enhancement in chemically reduced graphene quantum dots. **2015**, 17, 22361-6		55
1186	Photoluminescence of Graphene Oxide in Visible Range Arising from Excimer Formation. **2015**, 119, 20085-20090		30
1185	A frozen matrix hybrid optical nonlinear system enhanced by a particle lens. **2015**, 7, 14982-8		15
1184	Highly sensitive transient absorption imaging of graphene and graphene oxide in living cells and circulating blood. **2015**, 5, 12394		28
1183	Exploring the blue luminescence origin of nitrogen-doped carbon dots by controlling the water amount in synthesis. **2015**, 5, 66528-66533		42
1182	Bovine □actalbumin functionalized graphene oxide nano-sheet exhibits enhanced biocompatibility: A rational strategy for graphene-based targeted cancer therapy. **2015**, 134, 178-87		37
1181	Fabrication of fluorescent nitrogen-rich graphene quantum dots by tin(IV) catalytic carbonization of ethanolamine. **2015**, 5, 60085-60089		13

1180	Graphene for Transparent Conductors. **2015**,	29
1179	Sensitive determination of kaempferol using carbon dots as a fluorescence probe. **2015**, 144, 390-7	17
1178	Graphene-based protein biomarker detection. **2015**, 7, 725-42	26
1177	Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. **2015**, 5, 11032	46
1176	Two dimensional polymerization of graphene oxide: Bottom-up approach. **2015**, 163, 172-181	1
1175	Multicolor Emitting Block Copolymer-Integrated Graphene Quantum Dots for Colorimetric, Simultaneous Sensing of Temperature, pH, and Metal Ions. **2015**, 27, 5288-5294	60
1174	Reduced graphene oxide synthesis by high energy ball milling. **2015**, 161, 123-129	27
1173	Modification of graphene oxide for applying as mid-infrared photodetector. **2015**, 120, 637-643	15
1172	A spectrally tunable all-graphene-based flexible field-effect light-emitting device. **2015**, 6, 7767	97
1171	Near-UV-emitting graphene quantum dots from graphene hydrogels. **2015**, 94, 181-188	28
1170	Luminomagnetic bifunctionality of Mn(2+)-bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. **2015**, 7, 12498-509	6
1169	Enhanced reverse saturable absorption of electrostatic self-assembled layer by layer films containing (8-quinolineoxy-5-sulfonic acid)phthalocyanine cobalt and graphene oxide. **2015**, 5, 55150-55157	7
1168	Glucosamine-Anchored Graphene Oxide Nanosheets: Fabrication, Ultraviolet Irradiation, and Electrochemical Properties. **2015**, 7, 14552-6	27
1167	A room temperature volatile organic compound sensor with enhanced performance, fast response and recovery based on N-doped graphene quantum dots and poly(3,4-ethylenedioxythiophene)–poly(styrenesulfonate) nanocomposite. **2015**, 5, 57559-57567	58
1166	Dielectric barrier discharge-assisted one-pot synthesis of carbon quantum dots as fluorescent probes for selective and sensitive detection of hydrogen peroxide and glucose. **2015**, 142, 51-6	40
1165	Photochemical Processes Involving Graphene Oxide. **2015**, 51, 1-29	8
1164	Enhanced Multifunctional Properties of Graphene Nanocomposites with Nacre-Like Structures. **2015**, 17, 523-531	13
1163	Functionalization of Graphene Oxide and its Biomedical Applications. **2015**, 40, 291-315	124

1162	Controllable size-selective method to prepare graphene quantum dots from graphene oxide. **2015**, 10, 55	103
1161	Fabrication and properties of a high-performance chlorine doped graphene quantum dot based photovoltaic detector. **2015**, 5, 29222-29229	44
1160	Multi-functional fluorescent carbon dots with antibacterial and gene delivery properties. **2015**, 5, 46817-46822	206
1159	Tailoring the edges of graphene quantum dots to establish localized □ interactions with aromatic molecules. **2015**, 5, 41248-41254	17
1158	Nitrogen and sulfur co-doped carbon dots: A facile and green fluorescence probe for free chlorine. **2015**, 219, 50-56	93
1157	Well-Aligned Graphene Oxide Nanosheets Decorated with Zinc Oxide Nanocrystals for High Performance Photocatalytic Application. **2015**, 14, 1550007	65
1156	A study on near-UV blue photoluminescence in graphene oxide prepared by Langmuir□lodgett method. **2015**, 345, 18-23	16
1155	Tunable wide blue photoluminescence with europium decorated graphene. **2015**, 3, 4030-4038	27
1154	Graphene oxide-phosphor hybrid nanoscrolls with high luminescent quantum yield: synthesis, structural, and X-ray absorption studies. **2015**, 7, 5693-700	20
1153	Functionalization of graphene oxide nanostructures improves photoluminescence and facilitates their use as optical probes in preclinical imaging. **2015**, 7, 10410-20	38
1152	Photoluminescent carbon nanodots: synthesis, physicochemical properties and analytical applications. **2015**, 18, 447-458	317
1151	Graphene quantum dots as on-off-on fluorescent probes for chromium(VI) and ascorbic acid. **2015**, 182, 1723-1731	100
1150	Green and fast synthesis of amino-functionalized graphene quantum dots with deep blue photoluminescence. **2015**, 17, 1	24
1149	Multifunctional Poly(L-lactide)-Polyethylene Glycol-Grafted Graphene Quantum Dots for Intracellular MicroRNA Imaging and Combined Specific-Gene-Targeting Agents Delivery for Improved Therapeutics. **2015**, 7, 11015-23	92
1148	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. **2015**, 11, 3773-81	44
1147	Synthesis of graphene oxide dots for excitation-wavelength independent photoluminescence at high quantum yields. **2015**, 3, 4553-4562	33
1146	Carbon quantum dots and applications in photocatalytic energy conversion. **2015**, 7, 8363-76	476
1145	Primary hepatocyte imaging by multiphoton luminescent graphene quantum dots. **2015**, 51, 8041-3	25

1144	Graphene nanophotonic sensors. **2015**, 2, 032005	15
1143	Carbon dot grafted SrAl2O4:Eu,Dy dual-emitting phosphor for ratiometric temperature sensing. **2015**, 5, 89238-89243	14
1142	Oxygenated amorphous carbon for resistive memory applications. **2015**, 6, 8600	64
1141	Novel TiO2/graphene oxide functionalized with a cobalt complex for significant degradation of NOx and CO. **2015**, 5, 93706-93716	30
1140	Highly luminescent N, S- Co-doped carbon dots and their direct use as mercury(II) sensor. **2015**, 890, 134-42	116
1139	Intramolecular hydrogen bonds quench photoluminescence and enhance photocatalytic activity of carbon nanodots. **2015**, 21, 8561-8	62
1138	Fabrication of silicon nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-graphene oxide hybrid solar cells. **2015**, 117, 105102	11
1137	Observing and tuning the density distribution of localized states of monolayer graphene oxide by using external electric field. **2015**, 106, 131103	5
1136	Tunable photoluminescence from sheet-like black phosphorus crystal by electrochemical oxidation. **2015**, 107, 021901	28
1135	Oxidative peeling of carbon black nanoparticles. **2015**, 5, 92539-92544	4
1134	Extraction of preformed graphene oxide from coal: its clenched fist form entrapping large molecules. **2015**, 5, 89076-89082	18
1133	Imaging and spectrum of monolayer graphene oxide in external electric field. **2015**, 93, 843-850	11
1132	Charge transfer from poly(3-hexylthiophene) to graphene oxide and reduced graphene oxide. **2015** , 5, 89515-89520	65
1131	Coal Oxide as a Thermally Robust Carbon-Based Proton Conductor. **2015**, 7, 23041-6	10
1130	Switching and memory effects in composite films of semiconducting polymers with particles of graphene and graphene oxide. **2015**, 57, 1678-1684	8
1129	Synthesis, Structure, and Properties of Graphene and Graphene Oxide. **2015**, 29-94	16
1128	Reduction and transformation of fluorinated graphene induced by ultraviolet irradiation. **2015**, 17, 24056-62	35
1127	Graphene Quantum Rings Doped PEDOT:PSS Based Composite Layer for Efficient Performance of Optoelectronic Devices. **2015**, 119, 19619-19627	15

1126	Thermal deoxygenation causes photoluminescence shift from UV to blue region in lyophilized graphene oxide. **2015**, 5, 74342-74346	6
1125	ROS generation by reduced graphene oxide (rGO) induced by visible light showing antibacterial activity: comparison with graphene oxide (GO). **2015**, 5, 80192-80195	47
1124	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. **2015**, 115, 10307-77	903
1123	Broadband nonlinear optical and optical limiting effects of partially unzipped carbon nanotubes. **2015**, 3, 9948-9954	26
1122	Anchoring ternary CuFePd nanocatalysts on reduced graphene oxide to improve the electrocatalytic activity for the methanol oxidation reaction. **2015**, 5, 101563-101568	9
1121	The band structure of graphene oxide examined using photoluminescence spectroscopy. **2015**, 3, 12484-12491	44
1120	Graphene quantum dots: In the crossroad of graphene, quantum dots and carbogenic nanoparticles. **2015**, 20, 354-361	28
1119	Unusual nonlinear absorption response of graphene oxide in the presence of a reduction process. **2015**, 12, 025401	13
1118	High Performance Flexible Supercapacitor Electrodes Composed of Ultralarge Graphene Sheets and Vanadium Dioxide. **2015**, 5, 1401890	75
1117	Glowing graphene quantum dots and carbon dots: properties, syntheses, and biological applications. **2015**, 11, 1620-36	1415
1116	In liquid laser treated graphene oxide for dye removal. **2015**, 348, 85-91	21
1115	Revealing the interactions between pentagon-octagon-pentagon defect graphene and organic donor/acceptor molecules: a theoretical study. **2015**, 17, 4919-25	21
1114	One-pot synthesis of ZnO/reduced graphene oxide nanocomposite for supercapacitor applications. **2015**, 31, 131-138	50
1113	To lose is to gain: Effective synthesis of water-soluble graphene fluoroxide quantum dots by sacrificing certain fluorine atoms from exfoliated fluorinated graphene. **2015**, 83, 152-161	39
1112	A facile synthesis of highly luminescent nitrogen-doped graphene quantum dots for the detection of 2,4,6-trinitrophenol in aqueous solution. **2015**, 7, 1872-8	269
1111	One-step ultrasonic synthesis of graphene quantum dots with high quantum yield and their application in sensing alkaline phosphatase. **2015**, 51, 948-51	102
1110	Non-enzymatic-browning-reaction: a versatile route for production of nitrogen-doped carbon dots with tunable multicolor luminescent display. **2014**, 4, 3564	175
1109	Green synthesis of highly reduced graphene oxide by compressed hydrogen gas towards energy storage devices. **2015**, 274, 310-317	14

1108	Graphene Oxide: Physics and Applications. **2015**,	30
1107	Novel fluorescence resonance energy transfer optical sensors for vitamin B12 detection using thermally reduced carbon dots. **2015**, 39, 501-507	99
1106	Structural evolution of graphene quantum dots during thermal decomposition of citric acid and the corresponding photoluminescence. **2015**, 82, 304-313	144
1105	Conducting carbon quantum dots a nascent nanomaterial. **2015**, 3, 1580-1586	33
1104	Poly(9-vinylcarbazole)graphene oxide composite field-effect transistors with enhanced mobility. **2015**, 16, 186-194	28
1103	Carbon quantum dots and their applications. **2015**, 44, 362-81	2967
1102	Thermal transport in graphene oxide--from ballistic extreme to amorphous limit. **2014**, 4, 3909	147
1101	A fluorescence resonance energy transfer (FRET) biosensor based on graphene quantum dots (GQDs) and gold nanoparticles (AuNPs) for the detection of mecA gene sequence of Staphylococcus aureus. **2015**, 67, 595-600	256
1100	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. **2015**, 7, 4598-810	2015
1099	Graphene oxide functionalization with aminocoumarin nanosheet fluorescent dye: Preparation, electrochemistry, spectroscopy and imaging in the living cells. **2015**, 113, 327-335	8
1098	The effect of thermal reduction on the photoluminescence and electronic structures of graphene oxides. **2014**, 4, 4525	86
1097	Tuning the Emission Energy of Chemically Doped Graphene Quantum Dots. **2016**, 6,	30
1096	. **2016**,	66
1095	Graphene Quantum Dots: Syntheses, Properties, and Biological Applications. **2016**, 171-192	9
1094	A Novel Ratiometric Probe Based on Nitrogen-Doped Carbon Dots and Rhodamine B Isothiocyanate for Detection of Fe(3+) in Aqueous Solution. **2016**, 2016, 4939582	10
1093	Graphene Quantum Dots - From Emergence to Nanotheranostic Applications. **2016**,	7
1092	Photoluminescence enhancement of graphene oxide emission by infiltration in an aperiodic porous silicon multilayer. **2016**, 24, 24413-24421	12
1091	Making few-layer graphene photoluminescent by UV ozonation. **2016**, 6, 3527	7

1090	Passive Q-switched and Mode-locked Fiber Lasers Using Carbon-based Saturable Absorbers. **2016**,	2
1089	Microwave-Assisted Preparation of White Fluorescent Graphene Quantum Dots as a Novel Phosphor for Enhanced White-Light-Emitting Diodes. **2016**, 26, 2739-2744	172
1088	Bioinspired Nanocomposites: Ordered 2D Materials Within a 3D Lattice. **2016**, 26, 5569-5575	18
1087	Stimuli-Regulated Enzymatically Degradable Smart Graphene-Oxide-Polymer Nanocarrier Facilitating Photothermal Gene Delivery. **2016**, 5, 1918-30	42
1086	Supra-(carbon nanodots) with a strong visible to near-infrared absorption band and efficient photothermal conversion. **2016**, 5, e16120	177
1085	A facile synthesis of graphene oxide□ZnS/ZnO nanocomposites and observations of thermal quenching of visible photoluminescence emission and nonlinear optical properties. **2016**, 179, 211-221	18
1084	Photoinduced Charge Separation on the Microsecond Timescale in Graphene Oxide and Reduced Graphene Oxide Suspensions. **2016**, 17, 958-62	8
1083	Nanoscale Perforation of Graphene Oxide during Photoreduction Process in the Argon Atmosphere. **2016**, 120, 28261-28269	51
1082	Phenomenal Ultraviolet Photoresponsivity and Detectivity of Graphene Dots Immobilized on Zinc Oxide Nanorods. **2016**, 8, 35496-35504	47
1081	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. **2016**, 108, 061904	7
1080	Efficient control of ultrafast optical nonlinearity of reduced graphene oxide by infrared reduction. **2016**, 120, 013101	31
1079	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. **2016**, 6, 38423	34
1078	Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. **2016**, 120, 105304	18
1077	Giant third-order nonlinearity from low-loss electrochemical graphene oxide film with a high power stability. **2016**, 109, 221105	33
1076	Novel Radiation-Induced Properties of Graphene and Related Materials. **2016**, 159-189	
1075	Graphene Quantum Dot - Titania Nanoparticle Composite for Photocatalytic Water Splitting. **2016**, 1, 2071-2077	5
1074	Structure and photoluminescence properties of carbon nanotip-vertical graphene nanohybrids. **2016**, 119, 024302	14
1073	The redox nature of the resistive switching in nanocomposite thin films based on graphene (graphene oxide) nanoparticles and poly(9-vinylcarbazole). **2016**, 217, 7-13	25

1072	Single layer nano graphene platelets derived from graphite nanofibres. **2016**, 8, 8810-8	18
1071	Proteolytic disassembly of peptide-mediated graphene oxide assemblies for turn-on fluorescence sensing of proteases. **2016**, 8, 12272-81	18
1070	Multifunctionality in graphene decorated with cobalt nanorods. **2016**, 101, 204-209	4
1069	Photoluminescent Carbon Nanostructures. **2016**, 28, 4085-4128	150
1068	Graphene materials-based chemiluminescence for sensing. **2016**, 27, 54-71	46
1067	Graphene oxide derived graphene quantum dots with different photoluminescence properties and peroxidase-like catalytic activity. **2016**, 6, 50609-50617	56
1066	Elucidating Quantum Confinement in Graphene Oxide Dots Based On Excitation-Wavelength-Independent Photoluminescence. **2016**, 7, 2087-92	115
1065	Facile hydrothermal method to prepare graphene quantum dots from graphene oxide with different photoluminescences. **2016**, 6, 40422-40426	22
1064	Synthesis of few-layered, high-purity graphene oxide sheets from different graphite sources for biology. **2016**, 3, 014006	81
1063	Tuning the luminescence and optical properties of graphene oxide and reduced graphene oxide functionnalized with PVA. **2016**, 122, 1	20
1062	Modifications in development of graphene oxide synthetic routes. **2016**, 294, 458-477	54
1061	Fluorescent nitrogen-rich carbon nanodots with an unexpected □-C3N4 nanocrystalline structure. **2016**, 4, 2598-2605	43
1060	Good's buffer derived highly emissive carbon quantum dots: excellent biocompatible anticancer drug carrier. **2016**, 4, 2412-2420	24
1059	Multifunctional N,S co-doped carbon quantum dots with pH- and thermo-dependent switchable fluorescent properties and highly selective detection of glutathione. **2016**, 104, 169-178	225
1058	Graphene quantum dot coupled with gold nanoparticle based □off-on□fluorescent probe for sensitive and selective detection of L-cysteine. **2016**, 183, 1855-1864	33
1057	Nanoparticles and DNA - a powerful and growing functional combination in bionanotechnology. **2016**, 8, 9037-95	153
1056	Nitrogen and Sulfur Codoped Reduced Graphene Oxide as a General Platform for Rapid and Sensitive Fluorescent Detection of Biological Species. **2016**, 8, 11255-61	37
1055	Facile preparation of Gd3+ doped carbon quantum dots: Photoluminescence materials with magnetic resonance response as magnetic resonance/fluorescence bimodal probes. **2016**, 57, 56-62	17

1054	Electrogenerated Chemiluminescence Resonance Energy Transfer between Ru(bpy)3(2+) Electrogenerated Chemiluminescence and Gold Nanoparticles/Graphene Oxide Nanocomposites with Graphene Oxide as Coreactant and Its Sensing Application. **2016**, 88, 5469-75	95
1053	Characterization and toxicological effects of three-dimensional graphene foams in rats in vivo. **2016**, 18, 1	14
1052	Luminescent properties and sensing performance of a carbon quantum dot encapsulated mesoporous silica/polyacrylonitrile electrospun nanofibrous membrane. **2016**, 51, 6801-6811	22
1051	Influence of Doping and Temperature on Solvatochromic Shifts in Optical Spectra of Carbon Dots. **2016**, 120, 10591-10604	132
1050	Pseudo-multicolor carbon dots emission and the dilution-induced reversible fluorescence shift. **2016**, 6, 44024-44028	21
1049	Surface plasmon enhancement of photoluminescence in photo-chemically synthesized graphene quantum dot and Au nanosphere. **2016**, 9, 1866-1875	25
1048	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. **2016**, 4, 9-16	90
1047	Graphene quantum dots from fishbone carbon nanofibers. **2016**, 6, 48504-48514	14
1046	Rapid thermal annealing of nickel-carbon nanowires for graphene nanoribbons formation. **2016**, 218, 43-49	11
1045	Application of graphene in dye and quantum dots sensitized solar cell. **2016**, 137, 531-550	28
1044	Near-infrared emissive lanthanide hybridized carbon quantum dots for bioimaging applications. **2016**, 4, 6366-6372	63
1043	Bio-Applications of Graphene Composites: From Bench to Clinic. **2016**, 433-471	9
1042	Nanoionic devices: Interface nanoarchitechtonics for physical property tuning and enhancement. **2016**, 55, 1102A4	12
1041	Functional Nucleic Acids Detection in Food Safety. **2016**,	7
1040	Plasma-chemical synthesis, structure and photoluminescence properties of hybrid graphene nanoflake**B**NCO nanowall systems. **2016**, 4, 9788-9797	14
1039	Self-organized graphene-like boron nitride containing nanoflakes on copper by low-temperature N2 + H2 plasma. **2016**, 6, 87607-87615	11
1038	Template-free hydrothermal synthesis of amphibious fluorescent carbon nanorice towards anti-counterfeiting applications and unleashing its nonlinear optical properties. **2016**, 6, 99060-99071	7
1037	Optical Properties of Graphene Oxide. **2016**, 147-174	4

1036	Observation of scattering parameters for bandgap-tuned graphene oxide under 488□hm illumination. **2016**, 109, 453-460	3
1035	Functionalized-Graphene Composites: Fabrication and Applications in Sustainable Energy and Environment. **2016**, 28, 8082-8118	151
1034	Insight into the Origin of Boosted Photosensitive Efficiency of Graphene from the Cooperative Experiment and Theory Study. **2016**, 120, 27091-27103	34
1033	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. **2016**, 6, 97990-97994	39
1032	Heteroatom-doped carbon dots: synthesis, characterization, properties, photoluminescence mechanism and biological applications. **2016**, 4, 7204-7219	291
1031	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. **2016**, 4, 8146-8160	62
1030	Synthesis and analytical applications of photoluminescent carbon nanosheet by exfoliation of graphite oxide without purification. **2016**, 27, 13080-13085	61
1029	Facile fabrication of carbon spheres/n-Si junction diodes based on sucrose. **2016**, 27, 13044-13051	5
1028	Blue photoluminescent carbon nanodots from limeade. **2016**, 69, 914-21	41
1027	Recent Advances in Laser Utilization in the Chemical Modification of Graphene Oxide and Its Applications. **2016**, 4, 37-65	96
1026	Grafting of ZnS:Mn-Doped Nanocrystals and an Anticancer Drug onto Graphene Oxide for Delivery and Cell Labeling. **2016**, 81, 100-107	23
1025	Growth and optical properties of colloidal graphene quantum dots. **2016**, 10, 91-101	10
1024	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. **2016**, 33, 8-14	16
1023	Size dependent magnetic and optical properties in diamond shaped graphene quantum dots: A DFT study. **2016**, 99, 34-42	34
1022	Graphene Quantum Sheets with Multiband Emission: Unravelling the Molecular Origin of Graphene Quantum Dots. **2016**, 120, 21678-21684	28
1021	High-quality graphene via microwave reduction of solution-exfoliated graphene oxide. **2016**, 353, 1413-1416	521
1020	Architecting Nitrogen Functionalities on Graphene Oxide Photocatalysts for Boosting Hydrogen Production in Water Decomposition Process. **2016**, 6, 1600719	56
1019	Edge or interface effect on bandgap openings in graphene nanostructures: A thermodynamic approach. **2016**, 326, 1-33	15

1018	A Facile Method towards Carbon Quantum Dots with Strong Photoluminescence. **2016**, 859, 85-89	
1017	Orbital hybridization mechanism for the enhanced photoluminescence in edge-functionalized sp 2 carbon clusters. **2016**, 109, 418-427	6
1016	Observing the Heterogeneous Electro-redox of Individual Single-Layer Graphene Sheets. **2016**, 10, 8434-42	9
1015	Platinum/nitrogen-doped carbon nanoparticles synthesized in nitrogen-doped carbon quantum dots aqueous solution for methanol electro-oxidation. **2016**, 213, 332-340	17
1014	Influence of chemical states of doped nitrogen on photoluminescence intensity of hydrothermally synthesized carbon dots. **2016**, 180, 123-131	23
1013	Graphene Oxide: A One- versus Two-Component Material. **2016**, 138, 11445-8	57
1012	Ultrasonic cavitation effects on the structure of graphene oxide in aqueous suspension. **2016**, 51, 10782-10792	14
1011	Tunable optical properties of OH-functionalised graphene quantum dots. **2016**, 4, 8429-8438	27
1010	Chemically clean single-step oxido-reductive synthesis of green luminescent graphene quantum dots as impending electrocatalyst. **2016**, 109, 517-528	20
1009	The effect of edges and shapes on band gap energy in graphene quantum dots. **2016**, 175, 211-219	21
1008	Competition Between Resonant Plasmonic Coupling and Electrostatic Interaction in Reduced Graphene Oxide Quantum Dots. **2016**, 6, 36898	8
1007	Resistive switching behavior of reduced graphene oxide memory cells for low power nonvolatile device application. **2016**, 6, 26763	76
1006	Enhancement of nonlinear optical properties of graphene oxide-based structures: push–pull models. **2016**, 6, 94437-94450	15
1005	Identification and Assessment of Heavy Metal Pollution Using Nucleic Acid-Mediated Technologies. **2016**, 383-416	
1004	Graphene and its derivatives for laser protection. **2016**, 84, 118-157	85
1003	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. **2016**, 11, 565-586	421
1002	Leaky graphene oxide with high quantum yield and dual-wavelength photoluminescence. **2016**, 108, 461-470	17
1001	Fabrication and Applications of Biocompatible Graphene Oxide and Graphene. **2016**, 143-150	5

1000	Energy conversion of sub-band-gap light using naked carbon nanodots and rhodamine B. **2016**, 26, 479-487	7
999	Anomalous Light Emission and Wide Photoluminescence Spectra in Graphene Quantum Dot: Quantum Confinement from Edge Microstructure. **2016**, 7, 2888-92	22
998	Sustainable one-pot integration of ZnO nanoparticles into carbon spheres: manipulation of the morphological, optical and electrochemical properties. **2016**, 18, 30794-30807	13
997	Nanomaterials for optical data storage. **2016**, 1,	159
996	Role of C-N Configurations in the Photoluminescence of Graphene Quantum Dots Synthesized by a Hydrothermal Route. **2016**, 6, 21042	171
995	Optical behaviour of functional groups of graphene oxide. **2016**, 3, 105604	8
994	Nanospherical like reduced graphene oxide decorated TiO2 nanoparticles: an advanced catalyst for the hydrogen evolution reaction. **2016**, 6, 20335	66
993	Investigation of hydrogen induced fluorescence in C and its potential use in luminescence down shifting applications. **2016**, 8, 18760-18770	9
992	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. **2016**, 7, 13440	71
991	Chemically derived luminescent graphene oxide nanosheets and its sunlight driven photocatalytic activity against methylene blue dye. **2016**, 62, 320-327	26
990	Assembling carbon quantum dots to a layered carbon for high-density supercapacitor electrodes. **2016**, 6, 19028	77
989	Gamma ray shifted and enhanced photoluminescence of graphene quantum dots. **2016**, 4, 10538-10544	7
988	Tuning the bandgap of graphene quantum dots by gold nanoparticle-assisted O2 plasma etching. **2016**, 6, 97853-97860	3
987	Band-like transport in highly crystalline graphene films from defective graphene oxides. **2016**, 6, 28936	53
986	The luminescent carbon nanoparticles with controllable oxygen-related functional groups prepared by pulsed laser ablation in water. **2016**, 30, 1650320	5
985	Camphor-mediated synthesis of carbon nanoparticles, graphitic shell encapsulated carbon nanocubes and carbon dots for bioimaging. **2016**, 6, 21286	42
984	Fullerene-Structural Carbon-Based Dots from C60 Molecules and their Optical Properties. **2016**, 33, 916-923	5
983	Birch-Type Hydrogenation of Few-Layer Graphenes: Products and Mechanistic Implications. **2016**, 138, 14980-14986	23

982	Spin-orbital effects in metal-dichalcogenide semiconducting monolayers. **2016**, 6, 24093		44
981	Unveiling conducting pathways embedded in strongly disordered graphene. **2016**, 31, 115001		1
980	Quasi-Continuously Tuning the Size of Graphene Quantum Dots via an Edge-Etching Mechanism. **2016**, 1, 1459-1467		2
979	Preparation of Carbon Nanosheets at Room Temperature. **2016**,		
978	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. *Advanced Materials*, **2016**, 28, 5255-61	24	95
977	Chemical Functionalisation and Photoluminescence of Graphene Quantum Dots. **2016**, 22, 8198-206		47
976	Analysis on the effect of ZnO on Carbon nanotube by spray pyrolysis method. **2016**, 2,		7
975	Brianyoungite/Graphene Oxide Coordination Composites for High-Performance Cu(2+) Adsorption and Tunable Deep-Red Photoluminescence. **2016**, 8, 15848-54		18
974	Carbon Nanoparticles and Nanostructures. **2016**,		14
973	Transparent sunlight conversion film based on carboxymethyl cellulose and carbon dots. **2016**, 151, 245-250		43
972	Photoluminescent Properties of Carbon Nanodots. **2016**, 239-256		2
971	N, B-doped carbon dots as a sensitive fluorescence probe for Hg(2+) ions and 2,4,6-trinitrophenol detection for bioimaging. **2016**, 162, 1-13		64
970	Carbon Based Dots and Their Luminescent Properties and Analytical Applications. **2016**, 161-238		8
969	Catalytic Applications of Carbon Dots. **2016**, 257-298		10
968	The origin of emissive states of carbon nanoparticles derived from ensemble-averaged and single-molecular studies. **2016**, 8, 14057-69		86
967	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. **2016**, 6, 61482-61491		28
966	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. **2016**, 8, 14297-340		261
965	Electrochemical exfoliation of carbon dots with the narrowest full width at half maximum in their fluorescence spectra in the ultraviolet region using only water as electrolyte. **2016**, 52, 9406-9		30

964 Ethylenediamine-modified graphene oxide covalently functionalized with a tetracarboxylic Zn(ii) phthalocyanine hybrid for enhanced nonlinear optical properties. **2016**, 15, 910-9 — 43

963 An investigation on the chemical structure of nitrogen and sulfur□codoped carbon nanoparticles by ultra-performance liquid chromatography-tandem mass spectrometry. **2016**, 408, 5347-57 — 22

962 Biomedical Applications of Graphene. **2016**, 41-56

961 Nitrogen-doped carbon dots derived from polyamindoamine dendrimer. **2016**, 6, 59702-59707 — 14

960 Structural diversity of graphene materials and their multifarious roles in heterogeneous photocatalysis. **2016**, 11, 351-372 — 247

959 Selective determination of free dissolved chlorine using nitrogen-doped carbon dots as a fluorescent probe. **2016**, 183, 2221-2227 — 45

958 White light emission of carbon dots by creating different emissive traps. **2016**, 178, 128-133 — 37

957 Computing optical properties of ultra-thin crystals. **2016**, 6, 351-368 — 13

956 Rational design of manganese ferrite-graphene hybrid photocatalysts: Efficient water splitting and effective elimination of organic pollutants. **2016**, 524, 182-191 — 41

955 Molecularly Designed, Nitrogen-Functionalized Graphene Quantum Dots for Optoelectronic Devices. *Advanced Materials*, **2016**, 28, 4632-8 — 24 — 175

954 Photochemical processes in graphene oxide films. **2016**, 50, 51-59 — 5

953 Elucidating the structure of carbon nanoparticles by ultra-performance liquid chromatography coupled with electrospray ionisation quadrupole time-of-flight tandem mass spectrometry. **2016**, 911, 100-107 — 9

952 Friction and conductance imaging of sp(2)- and sp(3)-hybridized subdomains on single-layer graphene oxide. **2016**, 8, 4063-9 — 26

951 Ultrafast carrier dynamics of carbon nanodots in different pH environments. **2016**, 18, 3838-45 — 45

950 Solid-state synthesis of self-functional carbon quantum dots for detection of bacteria and tumor cells. **2016**, 228, 465-470 — 79

949 Enhancement of the interfacial interaction between poly(vinyl chloride) and zinc oxide modified reduced graphene oxide. **2016**, 6, 5784-5791 — 32

948 One-step in situ synthesis of CeO□nanoparticles grown on reduced graphene oxide as an excellent fluorescent and photocatalyst material under sunlight irradiation. **2016**, 18, 11157-67 — 73

947 Enhanced photovoltaic performance of inverted polymer solar cells utilizing versatile chemically functionalized ZnO@graphene quantum dot monolayer. **2016**, 20, 221-232 — 40

946	The dual roles of functional groups in the photoluminescence of graphene quantum dots. **2016**, 8, 7449-58	97
945	Analytical applications of chemiluminescence systems assisted by carbon nanostructures. **2016**, 80, 387-415	45
944	Incorporating nitrogen-doped graphene oxide dots with graphene oxide sheets for stable and effective hydrogen production through photocatalytic water decomposition. **2016**, 521, 118-124	26
943	Facile synthesis of Gd(III) metallosurfactant-functionalized carbon nanodots with high relaxivity as bimodal imaging probes. **2016**, 6, 29441-29447	11
942	Facile labelling of graphene oxide for superior capacitive energy storage and fluorescence applications. **2016**, 18, 9673-81	14
941	A rapid microwave synthesis of nitrogen-sulfur co-doped carbon nanodots as highly sensitive and selective fluorescence probes for ascorbic acid. **2016**, 153, 332-9	48
940	Conducting Carbon Dot-Polypyrrole Nanocomposite for Sensitive Detection of Picric acid. **2016**, 8, 5758-62	62
939	Synthesis and spectral measurements of sulphonated graphene: some anomalous observations. **2016**, 18, 6701-5	10
938	2.6 ps pulse from passively mode-locking Nd:Gd0.64Y0.36VO4 laser based on graphene oxide. **2016**, 127, 673-676	2
937	Efficient synthesis of rice based graphene quantum dots and their fluorescent properties. **2016**, 6, 23518-23524	31
936	Ultrafast Processes in Graphene Oxide during Femtosecond Laser Excitation. **2016**, 120, 4104-4111	15
935	Graphene-based large area dye-sensitized solar cell modules. **2016**, 8, 5368-78	114
934	A fluorescent graphitic carbon nitride nanosheet biosensor for highly sensitive, label-free detection of alkaline phosphatase. **2016**, 8, 4727-32	82
933	Synthesis, doping and properties of two-dimensional materials. **2016**,	
932	Electrochemical Methods to Study Photoluminescent Carbon Nanodots: Preparation, Photoluminescence Mechanism and Sensing. **2016**, 8, 28372-28382	33
931	Insight into the effect of functional groups on visible-fluorescence emissions of graphene quantum dots. **2016**, 4, 2235-2242	34
930	Mechanism for excitation-dependent photoluminescence from graphene quantum dots and other graphene oxide derivates: consensus, debates and challenges. **2016**, 8, 7794-807	290
929	Label-free and ratiometric detection of nuclei acids based on graphene quantum dots utilizing cascade amplification by nicking endonuclease and catalytic G-quadruplex DNAzyme. **2016**, 81, 214-220	31

928	Effect of zinc oxide films on the structure and photoluminescence properties of graphene-like nanoflakes. **2016**, 175, 82-87	
927	Atomic Oxygen Tailored Graphene Oxide Nanosheets Emissions for Multicolor Cellular Imaging. **2016**, 8, 7390-5	40
926	Self assembly of functionalised graphene nanostructures by one step reduction of graphene oxide using aqueous extract of Artemisia vulgaris. **2016**, 362, 221-229	24
925	Functionalization of reduced graphene oxide with axially-coordinated metal-porphyrins: facile syntheses and temporally-dependent nonlinear optical properties. **2016**, 3, 296-305	15
924	Exciton dynamics in luminescent carbon nanodots: Electron□hole exchange interaction. **2016**, 9, 549-559	8
923	Chiral Graphene Quantum Dots. **2016**, 10, 1744-55	216
922	First principles study on optical response of graphene oxides: From reduced graphene oxide to the fully oxidized surface. **2016**, 114, 112-120	20
921	Graphene oxide-based nanomaterials for efficient photoenergy conversion. **2016**, 4, 2014-2048	61
920	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. **2016**, 10, 615-23	172
919	Antibacterial Property of Graphene Quantum Dots (Both Source Material and Bacterial Shape Matter). **2016**, 8, 20-5	94
918	Graphene quantum dots prepared from chemical exfoliation of multiwall carbon nanotubes: An efficient photocatalyst promoter. **2016**, 74, 104-109	40
917	FRET based ammonia sensor using carbon dots. **2016**, 225, 522-528	41
916	Hybrid materials of ZnO nanostructures with reduced graphene oxide and gold nanoparticles: enhanced photodegradation rates in relation to their composition and morphology. **2016**, 18, 1478-86	41
915	Fabrication, characterization, purification and photoluminescence properties of carbon nanomaterials over water-soluble alkali salts. **2016**, 74, 218-225	3
914	UHPLC combined with mass spectrometric study of as-synthesized carbon dots samples. **2016**, 146, 340-50	14
913	Carbon dots-based fluorescent probe for trace Hg2+ detection in water sample. **2016**, 222, 965-971	53
912	Low-Cost Synthesis of Smart Biocompatible Graphene Oxide Reduced Species by Means of GFP. **2016**, 178, 462-73	3
911	Near-infrared light-responsive nanomaterials for cancer theranostics. **2016**, 8, 23-45	95

910	Graphene and graphene-like two-denominational materials based fluorescence resonance energy transfer (FRET) assays for biological applications. **2017**, 89, 123-135	116
909	Ultrahigh current efficiency of light-emitting devices based on octadecylamine-graphene quantum dots. **2017**, 32, 441-447	35
908	In-situ Evidence of the Redox-State Dependence of Photoluminescence in Graphene Quantum Dots. **2017**, 8, 531-537	14
907	Antibacterial property of graphene oxide: the role of phototransformation. **2017**, 4, 647-657	41
906	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. **2017**, 9, 2240-2245	15
905	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. **2017**, 9, 4558-4569	101
904	Photoactive materials based on semiconducting nanocarbons □A challenge opening new possibilities for photocatalysis. **2017**, 26, 207-218	29
903	Graphene derivatives/Fe3O4/polymer nanocomposite films: Optical and electrical properties. **2017**, 193, 156-163	18
902	Highly efficient and simple protocol for synthesis of 2,4,5-triarylimidazole derivatives from benzil using fluorinated graphene oxide as effective and reusable catalyst. **2017**, 43, 4023-4041	18
901	Experimental and theoretical investigation of relative optical band gaps in graphene generations. **2017**, 4, 015101	16
900	Toward Green Synthesis of Graphene Oxide Using Recycled Sulfuric Acid via Couette-Taylor Flow. **2017**, 2, 186-192	13
899	Cu(I)-Doped carbon quantum dots with zigzag edge structures for highly efficient catalysis of azide□lkyne cycloadditions. **2017**, 19, 1494-1498	52
898	An Overview of Carbon Nanotubes and Graphene for Biosensing Applications. **2017**, 9, 25	166
897	Structure and Optical Features of Micro/Nanosized Carbon Forms Prepared by Electrochemical Exfoliation. **2017**, 12, 28	3
896	Excited States of Light-Harvesting Systems Based on Fullerene/Graphene Oxide and Porphyrin/Smaragdyrin. **2017**, 121, 4859-4872	17
895	Uptake dynamics of graphene quantum dots into primary human blood cells following in vitro exposure. **2017**, 7, 12208-12216	22
894	Effect of treatment by electrostatic field and 532-nm laser irradiation on optical and thermo-optical properties of graphene oxide colloids. **2017**, 52, 4532-4542	9
893	Reduced graphene oxide/TiO 2 nanotube composites for formic acid photodegradation. **2017**, 209, 203-213	77

892	Enhanced photocatalytic activity of magnetic core□shell Fe3O4@Bi2O3□RGO heterojunctions for quinolone antibiotics degradation under visible light. **2017**, 28, 8519-8528	31
891	Tunable (violet to green) emission by high-yield graphene quantum dots and exploiting its unique properties towards sun-light-driven photocatalysis and supercapacitor electrode materials. **2017**, 11, 76-86	56
890	Graphene quantum dot modified screen printed immunosensor for the determination of parathion. **2017**, 523, 1-9	59
889	Unique properties of graphene quantum dots and their applications in photonic/electronic devices. **2017**, 50, 103002	53
888	Deep-Blue Fluorescent Particles via Microwave Heating of Polyacrylonitrile Dispersions. **2017**, 38, 1600775	4
887	Carbon dots based FRET for the detection of DNA damage. **2017**, 92, 133-139	74
886	Temperature-sensitive carbon dots derived from poly(N-isopropylacrylamide) for fluorescence on□off properties. **2017**, 7, 11149-11157	7
885	Improving superconducting properties of YBCO high temperature superconductor by Graphene Oxide doping. **2017**, 193, 496-500	35
884	Origin of Anisotropic Photoluminescence in Heteroatom-Doped Carbon Nanodots. **2017**, 5, 1601049	24
883	Fluorescence intermittency originates from reclustering in two-dimensional organic semiconductors. **2017**, 8, 14521	2
882	Chemical Modification of Graphene Oxide by Nitrogenation: An X-ray Absorption and Emission Spectroscopy Study. **2017**, 7, 42235	34
881	Role of activated carbon surface chemistry in its photocatalytic activity and the generation of oxidant radicals under UV or solar radiation. **2017**, 207, 412-423	63
880	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. **2017**, 9, 14265-14272	27
879	N,S co-doped carbon dots as a stable bio-imaging probe for detection of intracellular temperature and tetracycline. **2017**, 5, 3293-3299	83
878	One-step hydrothermal synthesis of photoluminescent carbon nanodots with selective antibacterial activity against Porphyromonas gingivalis. **2017**, 9, 7135-7142	135
877	Determination of dihydralazine based on chemiluminescence resonance energy transfer of hollow carbon nanodots. **2017**, 183, 103-108	5
876	Facile and size-controllable preparation of graphene oxide nanosheets using high shear method and ultrasonic method. **2017**, 12, 247-262	27
875	Improved compatibility of DDAB-functionalized graphene oxide with a conjugated polymer by isocyanate treatment. **2017**, 7, 17633-17639	9

874	Molecular-Level Insights into the Stability of Aqueous Graphene Oxide Dispersions. **2017**, 121, 9847-9859	20
873	Shedding light on the effective fluorophore structure of high fluorescence quantum yield carbon nanodots. **2017**, 7, 24771-24780	76
872	Roles of nitrogen functionalities in enhancing the excitation-independent green-color photoluminescence of graphene oxide dots. **2017**, 9, 8256-8265	21
871	Synthesis and formation mechanism of s-doped carbon dots from low-molecule-weight organics. **2017**, 190, 108-114	22
870	Direct electrochemical DNA biosensor based on reduced graphene oxide and metalloporphyrin nanocomposite. **2017**, 251, 40-48	41
869	Graphene Oxide Based Electrochemical System for Energy Generation. **2017**, 331-346	1
868	Green Preparation of S and N Co-Doped Carbon Dots from Water Chestnut and Onion as Well as Their Use as an Off□On Fluorescent Probe for the Quantification and Imaging of Coenzyme A. **2017**, 5, 4992-5000	106
867	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. **2017**, 5, 10537-10543	136
866	The phosphorescence and excitation-wavelength dependent fluorescence kinetics of large-scale graphene oxide nanosheets. **2017**, 7, 22684-22691	8
865	Cyto-toxicity, biocompatibility and cellular response of carbon dots□plasmonic based nano-hybrids for bioimaging. **2017**, 7, 23502-23514	96
864	Nearly white light photoluminescence from ZnO/rGO nanocomposite prepared by a one-step hydrothermal method. **2017**, 715, 122-128	21
863	Fabrication of graphene/titanium carbide nanorod arrays for chemical sensor application. **2017**, 72, 425-432	20
862	Theranostic carbon dots □clathrate-like□nanostructures for targeted photo-chemotherapy and bioimaging of cancer. **2017**, 56, 62-73	18
861	Enhancing photoluminescence of graphene quantum dots by thermal annealing of the graphite precursor. **2017**, 93, 183-193	26
860	Direct Observations of Graphene Dispersed in Solution by Twilight Fluorescence Microscopy. **2017**, 8, 2425-2431	3
859	Mechanistic insights into tunable luminescence and persistent luminescence of the full-color-emitting BCNO phosphors. **2017**, 122, 176-184	14
858	Facile Synthesis of a Selective Biomolecule Chemosensor and Fabrication of Its Highly Fluorescent Graphene Complex. **2017**, 121, 5007-5016	8
857	Experimental review: chemical reduction of graphene oxide (GO) to reduced graphene oxide (rGO) by aqueous chemistry. **2017**, 9, 9562-9571	247

856	The effect of laser reduction process on the optical response of graphene oxide. **2017**, 28, 13888-13895	2
855	Synthesis of N doped graphene quantum dots-interspersed CdWO4 heterostructure nanorods as an effective photocatalyst with enhanced photoelectrochemical performance. **2017**, 724, 1014-1022	14
854	pH-Responsive fluorescent graphene quantum dots for fluorescence-guided cancer surgery and diagnosis. **2017**, 9, 4928-4933	81
853	A hydrothermal route to multicolor luminescent carbon dots from adenosine disodium triphosphate for bioimaging. **2017**, 76, 1146-1153	38
852	Origin of extraordinary luminescence shift in graphene quantum dots with varying excitation energy: An experimental evidence of localized sp2 carbon subdomain. **2017**, 118, 524-530	22
851	Photoluminescence from amino functionalized graphene quantum dots prepared by electrochemical exfoliation method in the presence of ammonium ions. **2017**, 7, 18340-18346	21
850	Electron transition pathways of graphene oxide quantum dots unraveled by emission wavelength dependent photoluminescence lifetime. **2017**, 7, 19701-19706	9
849	Degree of functionalisation dependence of individual Raman intensities in covalent graphene derivatives. **2017**, 7, 45165	37
848	Nonlinear Optical Properties and Temperature Dependent Photoluminescence in hBN-GO Heterostructure 2D Material. **2017**, 121, 8060-8069	29
847	Graphene based biosensors‐Accelerating medical diagnostics to new-dimensions. **2017**, 32, 2860-2882	71
846	Conversion of p to n-type reduced graphene oxide by laser annealing at room temperature and pressure. **2017**, 121, 125303	44
845	Rapid exfoliation of layered covalent triazine-based frameworks into N-doped quantum dots for the selective detection of Hg2+ ions. **2017**, 5, 9272-9278	62
844	C and O doped BN nanoflake and nanowire hybrid structures for tuneable photoluminescence. **2017**, 705, 691-699	11
843	Activating efficient room temperature phosphorescence of carbon dots by synergism of orderly non-noble metals and dual structural confinements. **2017**, 9, 6658-6664	73
842	Manipulating intrinsic behaviors of graphene by substituting alkaline earth metal atoms in its structure. **2017**, 7, 16360-16370	33
841	Photocatalytic Generation of H2O2 by Graphene Oxide in Organic Electron Donor-Free Condition under Sunlight. **2017**, 5, 2994-3001	55
840	A ratiometric fluorescent probe based on the pi-stacked graphene oxide and cyanine dye for sensitive detection of bisulfite. **2017**, 247, 823-829	45
839	Nitrogen and sulfur co-doped chiral carbon quantum dots with independent photoluminescence and chirality. **2017**, 4, 946-953	33

838	Preparation of Yellow-Green-Emissive Carbon Dots and Their Application in Constructing a Fluorescent Turn-On Nanoprobe for Imaging of Selenol in Living Cells. **2017**, 89, 1734-1741		94
837	Mesoporous carbon nanoshells for high hydrophobic drug loading, multimodal optical imaging, controlled drug release, and synergistic therapy. **2017**, 9, 1434-1442		31
836	Paramagnetic Properties of Metal-Free Boron-Doped Graphene Quantum Dots and Their Application for Safe Magnetic Resonance Imaging. *Advanced Materials*, **2017**, 29, 1605416	24	85
835	Photoluminescence mechanism in graphene quantum dots: Quantum confinement effect and surface/edge state. **2017**, 13, 10-14		269
834	One-step synthesis of graphitic carbon nitride nanosheets with the help of melamine and its application for fluorescence detection of mercuric ions. **2017**, 164, 458-462		31
833	Recent progress in carbon quantum dots: synthesis, properties and applications in photocatalysis. **2017**, 5, 3717-3734		604
832	Preparation of fluorescent N,P-doped carbon dots derived from adenosine 5?-monophosphate for use in multicolor bioimaging of adenocarcinomic human alveolar basal epithelial cells. **2017**, 184, 699-706		23
831	Modifying optical properties of reduced/graphene oxide with controlled ozone and thermal treatment in aqueous suspensions. **2017**, 28, 065705		16
830	Wettability effects of graphene oxide aqueous solution in photodetectors based on graphene oxide/silicon heterojunctions via ultraviolet ozone treatment. **2017**, 698, 384-389		9
829	High photoluminescent carbon based dots with tunable emission color from orange to green. **2017**, 9, 1028-1032		40
828	Graphene quantum dots prepared from glucose as optical sensor for glucose. **2017**, 184, 110-116		122
827	Optical and electrical smart response of chemically stabilized graphene oxide. **2017**, 28, 5235-5243		19
826	Effect of Surface Chemistry on the Fluorescence of Detonation Nanodiamonds. **2017**, 11, 10924-10934		73
825	Boron- and nitrogen-doped photoluminescent polymer carbon nanoparticles as nanosensors for imaging detection of Cu2+ and biothiols in living cells. **2017**, 7, 47654-47661		14
824	Insight into the multiple quasi-molecular states in ethylenediamine reduced graphene nanodots. **2017**, 19, 28653-28665		8
823	Fluorescent Graphene Quantum Dots for Bioimaging. **2017**, 97-113		
822	N,S,P Co-Doped Carbon Nanodot Fabricated from Waste Microorganism and Its Application for Label-Free Recognition of Manganese(VII) and l-Ascorbic Acid and AND Logic Gate Operation. **2017**, 9, 38761-38772		68
821	Reduced graphene oxide-germanium quantum dot nanocomposite: electronic, optical and magnetic properties. **2017**, 28, 495703		11

820	Synthesis of Reduced Grapheme Oxide as A Platform for loading □-NaYF:Ho@TiOBased on An Advanced Visible Light-Driven Photocatalyst. **2017**, 7, 13833	15
819	Hydrothermal route to graphene quantum dots: Effects of precursor and temperature. **2017**, 79, 112-118	35
818	Origin of Modified Luminescence Response in Reduced Graphitic Carbon Nitride Nanosheets. **2017**, 121, 19383-19391	25
817	White-light emission of blue-luminescent graphene quantum dots by europium (III) complex incorporation. **2017**, 124, 479-485	24
816	Organic liquid-crystal devices based on ionic conductors. **2017**, 4, 1102-1109	56
815	N-Doped CDs□P nanospheres as a drug delivery nanocarrier system with carbon dots and a fluorescent tracer. **2017**, 41, 10880-10889	4
814	Long-wavelength, multicolor, and white-light emitting carbon-based dots: Achievements made, challenges remaining, and applications. **2017**, 124, 429-472	208
813	Structural factors controlling size reduction of graphene oxide in liquid processing. **2017**, 125, 360-369	9
812	A facile and high-efficient approach to yellow emissive graphene quantum dots from graphene oxide. **2017**, 124, 342-347	31
811	Observation of Third-order Nonlinearities in Graphene Oxide Film at Telecommunication Wavelengths. **2017**, 7, 9646	23
810	Carbon-Based Nanocomposites for Visible Light-Induced Photocatalysis. **2017**, 203-249	4
809	Optical Characterization of Graphene and Its Derivatives: An Experimentalist□ Perspective. **2017**, 27-59	2
808	Selective engineering of oxygen-containing functional groups using the alkyl ligand oleylamine for revealing the luminescence mechanism of graphene oxide quantum dots. **2017**, 9, 18635-18643	12
807	Carbon nanoflake-nanoparticle interface: A comparative study on structure and photoluminescent properties of carbon nanoflakes synthesized on nanostructured gold and carbon by hot filament CVD. **2017**, 124, 391-402	10
806	One-Step Synthesis of Acidophilic Highly-Photoluminescent Carbon Dots Modified by Ionic Liquid from Polyethylene Glycol. **2017**, 2, 5251-5259	20
805	Understanding the Capsanthin Tails in Regulating the Hydrophilic-Lipophilic Balance of Carbon Dots for a Rapid Crossing Cell Membrane. **2017**, 33, 10259-10270	19
804	A fluorescence-electrochemical study of carbon nanodots (CNDs) in bio- and photoelectronic applications and energy gap investigation. **2017**, 19, 20101-20109	40
803	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. **2017**, 12, 2343-2353	171

802	Few-layer-graphene with high yield and low sheet resistance via mild oxidation of natural graphite. **2017**, 7, 35717-35723	4
801	Analysis of penicillamine using Cu-modified graphene quantum dots synthesized from uric acid as single precursor. **2017**, 7, 324-331	26
800	Nitrogen-doped carbon quantum dots as fluorescent probe for "off-on" detection of mercury ions, l-cysteine and iodide ions. **2017**, 506, 373-378	86
799	Chemiluminescence of Luminol□Graphene Oxide for the Sensitive Detection of Puerarin in Biological Fluid and Chinese Gegen. **2017**, 64, 993-999	3
798	Consequence of oxidation method on graphene oxide produced with different size graphite precursors. **2017**, 224, 150-157	26
797	Optical Band Gap Alteration of Graphene Oxide via Ozone Treatment. **2017**, 7, 6411	41
796	Different natures of surface electronic transitions of carbon nanoparticles. **2017**, 19, 22670-22677	31
795	Efficient synthesis of highly fluorescent carbon dots by microreactor method and their application in Fe ion detection. **2017**, 81, 213-223	44
794	2D□Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. **2017**, 5, 1700257	51
793	Facile synthesis of bulk SnO 2 and ZnO tetrapod based graphene nanocomposites for optical and sensing application. **2017**, 201, 372-383	9
792	Light-Enhanced Antibacterial Activity of Graphene Oxide, Mainly via Accelerated Electron Transfer. **2017**, 51, 10154-10161	83
791	Sweet graphene quantum dots for imaging carbohydrate receptors in live cells. **2017**, 5, 25-32	38
790	Manipulation and Quantification of Graphene Oxide Flake Size: Photoluminescence and Cytotoxicity. **2017**, 9, 28911-28921	43
789	Carbon-Based Nanobiomaterials. **2017**, 85-104	1
788	The role of sp2/sp3 hybrid carbon regulation in the nonlinear optical properties of graphene oxide materials. **2017**, 7, 53643-53652	52
787	High-efficiency exfoliation of large-area mono-layer graphene oxide with controlled dimension. **2017**, 7, 16414	22
786	Effect of nitrogen atom□positioning on the trade-off between emissive and photocatalytic properties of carbon dots. **2017**, 8, 1401	152
785	Tuning the photoluminescence of graphene quantum dots by co-doping of nitrogen and sulfur. **2017**, 19, 1	14

784	Effect of pH conditions on the depolymerization of Wucaiwan coal by mixed acids/ultrasound method and the product structures and performance. **2017**, 4, 342-353	3
783	Excitation-Dependent Photoluminescence from Single-Carbon Dots. **2017**, 13, 1702098	70
782	Advances, challenges and promises of carbon dots. **2017**, 4, 1963-1986	88
781	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. **2017**, 9, 22332-22341	122
780	Understanding the Photoluminescence Mechanism of Carbon Dots. **2017**, 2, 2927-2934	9
779	Sulfur-Doped Graphene Oxide Quantum Dots as Photocatalysts for Hydrogen Generation in the Aqueous Phase. **2017**, 10, 3260-3267	33
778	Towards efficient dual-emissive carbon dots through sulfur and nitrogen co-doped. **2017**, 5, 8014-8021	50
777	Molecular beacon anchored onto a graphene oxide substrate. **2017**, 28, 375501	9
776	Red, Yellow, and Blue Luminescence by Graphene Quantum Dots: Syntheses, Mechanism, and Cellular Imaging. **2017**, 9, 24846-24856	117
775	Mitochondria-targeted fluorescent carbon nano-platform for NIR-triggered hyperthermia and mitochondrial inhibition. **2017**, 55, 224-233	31
774	A redox-mediated 3D graphene based nanoscoop design for ultracapacitor applications. **2017**, 41, 8390-8398	3
773	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. **2017**, 6, 943-976	49
772	Highly fluorescent nitrogen-doped carbon dots with excellent thermal and photo stability applied as invisible ink for loading important information and anti-counterfeiting. **2017**, 9, 491-496	162
771	Photochemistry of nanoporous carbons: Perspectives in energy conversion and environmental remediation. **2017**, 490, 879-901	37
770	Green synthesis of carbon dots from rose-heart radish and application for Fe3+ detection and cell imaging. **2017**, 241, 190-198	289
769	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. **2017**, 162, 574-582	78
768	Highly fluorescent nitrogen and sulfur co-doped graphene quantum dots for an inner filter effect-based cyanide sensor. **2017**, 241, 779-788	61
767	Biosensing Based on Surface- Enhanced Raman Spectroscopy. **2017**, 111-156	

766	Efficient and sustainable metal-free GR/C3N4/CDots ternary heterostructrues for versatile visible-light-driven photoredox applications: Toward synergistic interaction of carbon materials. **2017**, 307, 593-603	42
765	Photoluminescence Quenching in Quantum Emitter, Metallic Nanoparticle, and Graphene Hybrids. **2017**, 12, 1021-1028	15
764	A facile synthesis of water-soluble carbon dots as a label-free fluorescent probe for rapid, selective and sensitive detection of picric acid. **2017**, 240, 949-955	141
763	The quenching of silver nanoparticles photoluminescence by graphene oxide: spectroscopic and morphological investigations. **2017**, 28, 1804-1811	8
762	Controlling speciation of nitrogen in nitrogen-doped carbon dots by ferric ion catalysis for enhancing fluorescence. **2017**, 111, 133-141	71
761	Amphiphilic carbon dots for sensitive detection, intracellular imaging of Al. **2017**, 953, 63-70	50
760	pH dependent tunable photoluminescence of Polyaniline grafted Graphene Oxide (GOPANI) nanocomposite. **2017**, 181, 138-146	13
759	Nanoscale Observation of a Single Graphene Oxide layer Using Scanning Tunneling Microscopy. **2017**, 60, 495-498	1
758	Hidden Relaxation Channels in Aqueous Methylene Blue after Functionalization of Graphene Oxide Probed by Transient Absorption Spectroscopy. **2017**, 30, 389-394	3
757	Photoluminescence enhancement of amino-functionalized graphene quantum dots in two-dimensional optical resonators. **2017**, 25, 1444-1451	4
756	Fluorescence evolution processes of visible/ultraviolet photo-reduced graphene oxide. **2017**, 7, 2519	7
755	Quercetin-mediated synthesis of graphene oxide-silver nanoparticle nanocomposites: a suitable alternative nanotherapy for neuroblastoma. **2017**, 12, 5819-5839	40
754	Sensitivity to Heavy-Metal Ions of Unfolded Fullerene Quantum Dots. **2017**, 17,	37
753	Properties and Synthesis Strategies of Graphene Quantum Dots. **2017**, 1-18	
752	Synthesis of Carbon Dots with Tunable Luminescence. **2017**, 06,	2
751	Reduced Graphene Oxide Thin Films with Very Large Charge Carrier Mobility Using Pulsed Laser Deposition. **2017**, 06,	14
750	Photoluminescent C-dots: An overview on the recent development in the synthesis, physiochemical properties and potential applications. **2018**, 748, 818-853	49
749	Theoretical study of nitrogen-doped graphene nanoflakes: Stability and spectroscopy depending on dopant types and flake sizes. **2018**, 39, 1387-1397	10

748	Light and Matter Interaction in Two-Dimensional Atomically Thin Films. **2018**, 91, 761-771	21
747	Calcium-doped fluorescent carbon nanoparticles: Spontaneous thermal synthesis, pH-sensitive fluorescence off-on, and mechanism. **2018**, 266, 594-602	7
746	Tunable electronic, electrical and optical properties of graphene oxide sheets by ion irradiation. **2018**, 29, 185701	12
745	Green synthesis of fluorescent carbon quantum dots for the detection of mercury(II) and glutathione. **2018**, 42, 5814-5821	68
744	Preparation of highly conductive, transparent, and flexible graphene/silver nanowires substrates using non-thermal laser photoreduction. **2018**, 103, 367-372	47
743	Facile synthesis and versatile applications of amorphous carbon dot. **2018**, 5, 10077-10083	8
742	Facile and green synthesis of fluorescent carbon dots with tunable emission for sensors and cells imaging. **2018**, 200, 226-234	30
741	One-step synthesis of fluorescent carbon dots for sensitive and selective detection of hyperin. **2018**, 186, 315-321	14
740	Tuning the optical properties of graphene quantum dots for biosensing and bioimaging. **2018**, 6, 3219-3234	106
739	Tailoring the properties of oxygenated graphene with different oxidation degrees for noble-metal-free photocatalytic hydrogen evolution. **2018**, 315, 93-102	13
738	Metal Charge Transfer Doped Carbon Dots with Reversibly Switchable, Ultra-High Quantum Yield Photoluminescence. **2018**, 1, 1886-1893	44
737	Ultraviolet Photoluminescence of Carbon Nanospheres and its Surface Plasmon-Induced Enhancement. **2018**, 14, e1704239	9
736	A Mechanistic Study on the Structure Formation of NiCo2O4 Nanofibers Decorated with In Situ Formed Graphene-Like Structures. **2018**, 28, 1885-1900	5
735	Green synthesis of amphiphilic carbon dots from organic solvents: application in fluorescent polymer composites and bio-imaging.. **2018**, 8, 12556-12561	17
734	Terahertz generation from reduced graphene oxide. **2018**, 134, 439-447	5
733	Third-order optical nonlinearity of N-doped graphene oxide nanocomposites at different GO ratios. **2018**, 79, 120-128	7
732	Experimental investigation of the effects of different liquid environments on the graphene oxide produced by laser ablation method. **2018**, 103, 155-162	16
731	Scalable Synthesis of Sub-Nanosized Platinum-Reduced Graphene Oxide Composite by an Ultraprecise Photocatalytic Method. **2018**, 6, 3773-3782	22

730	Investigations on optical properties of ZnO decorated graphene oxide (ZnO@GO) and reduced graphene oxide (ZnO@r-GO). **2018**, 744, 64-74	35
729	Carbon dots synthesized by hydrothermal process via sodium citrate and NHHCO for sensitive detection of temperature and sunset yellow. **2018**, 516, 192-201	30
728	Evidencing opposite charge-transfer processes at TiO2/graphene-related materials interface through a combined EPR, photoluminescence and photocatalysis assessment. **2018**, 315, 19-30	25
727	Effects of C-Related Dangling Bonds and Functional Groups on the Fluorescent and Electrochemiluminescent Properties of Carbon-Based Dots. **2018**, 24, 4250-4254	14
726	A Comparative evaluation of Graphene oxide based materials for Electrochemical non-enzymatic sensing of Curcumin. **2018**, 5, 025406	9
725	Exploring the effect of substitutional doping on the electronic properties of graphene oxide. **2018**, 53, 7516-7526	6
724	Chemical modification of group IV graphene analogs. **2018**, 19, 76-100	22
723	Optimizing the Crystallinity and Phase Separation of PTB7:PC71BM Films by Modified Graphene Oxide. **2018**, 122, 2572-2581	12
722	Laser-driven propulsion of multilayer graphene oxide flakes. **2018**, 6, 2329-2335	6
721	Associative behaviour and effect of functional groups on the fluorescence of graphene oxide. **2018**, 20, 7559-7569	10
720	Preparation of high-quality graphene using triggered microwave reduction under an air atmosphere. **2018**, 6, 1829-1835	24
719	Rapid Visualization of Latent Fingerprints with Color-Tunable Solid Fluorescent Carbon Dots. **2018**, 35, 1700387	30
718	Synthesis and properties of Ce-doped TiO2-reduced graphene oxide nanocomposite. **2018**, 742, 986-995	24
717	Graphene: from synthesis to engineering to biosensor applications. **2018**, 12, 1-20	19
716	Graphene oxide supported filtration of cesium from aqueous systems. **2018**, 539, 416-423	13
715	Study of Fluorescence Quenching Ability of Graphene Oxide with a Layer of Rigid and Tunable Silica Spacer. **2018**, 34, 603-611	36
714	Evaluation of physico-mechanical properties in NHDF and HeLa cell with treatment of graphene quantum dots using atomic force microscopy. **2018**, 437, 357-365	3
713	Graphene nanoplatelet doping of P3HT:PCBM photoactive layer of bulk heterojunction organic solar cells for enhancing performance. **2018**, 29, 105405	16

712	Engineering nanoscale p□ junction via the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. **2018**, 6, 3181-3194	95
711	Tunable Charge Injection via Solution-Processed Reduced Graphene Oxide Electrode for Vertical Schottky Barrier Transistors. **2018**, 30, 636-643	24
710	Effect of an anionic surfactant (SDS) on the photoluminescence of graphene oxide (GO) in acidic and alkaline medium. **2018**, 8, 584-595	11
709	Tuning Optoelectronic Properties of the Graphene-Based Quantum Dots CSi H Family. **2018**, 122, 5016-5025	6
708	Quasi-homogeneous carbocatalysis for one-pot selective conversion of carbohydrates to 5-hydroxymethylfurfural using sulfonated graphene quantum dots. **2018**, 136, 224-233	47
707	Electronic structure manipulation of graphene dots for effective hydrogen evolution from photocatalytic water decomposition. **2018**, 10, 10721-10730	19
706	High-throughput optical thickness and size characterization of 2D materials. **2018**, 10, 14441-14447	13
705	Solvent induced fluorescence enhancement of graphene oxide studied by ultrafast spectroscopy. **2018**, 508, 1-6	3
704	Rational Design and Development of Lanthanide-Doped NaYF@CdS-Au-RGO as Quaternary Plasmonic Photocatalysts for Harnessing Visible-Near-Infrared Broadband Spectrum. **2018**, 10, 15565-15581	117
703	Structure and solvents effects on the optical properties of sugar-derived carbon nanodots. **2018**, 8, 6559	81
702	Fluorinated graphene as an anticancer nanocarrier: an experimental and DFT study. **2018**, 6, 2769-2777	32
701	Effects of plasma and gas flow conditions on the structures and photoluminescence of carbon nanomaterials. **2018**, 84, 178-189	4
700	A comprehensive dual beam approach for broadband control of ultrafast optical nonlinearity in reduced graphene oxide. **2018**, 134, 80-91	8
699	Morphological transformations of BNCO nanomaterials: Role of intermediates. **2018**, 442, 682-692	4
698	Unravelling Some of the Structure-Property Relationships in Graphene Oxide at Low Degree of Oxidation. **2018**, 9, 1746-1749	20
697	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO Reduction. **2018**, 12, 3523-3532	222
696	Improving methane selectivity of photo-induced CO2 reduction on carbon dots through modification of nitrogen-containing groups and graphitization. **2018**, 232, 86-92	31
695	The preparation of a three dimensional terbium doped reduced graphene oxide aerogel with photoluminescence and paramagnetic properties.. **2018**, 8, 9287-9292	1

694	Synthesis, physicochemical and optical properties of bis-thiosemicarbazone functionalized graphene oxide. **2018**, 188, 183-188		21
693	Preparation of carbon dot-based ratiometric fluorescent probes for cellular imaging from Curcuma longa. **2018**, 33, 40-46		12
692	Tailoring thermal conductivity of bulk graphene oxide by tuning the oxidation degree. **2018**, 29, 711-715		12
691	The photoluminescence of step-wise reduced graphene oxide quantum dots. **2018**, 203, 125-132		11
690	Photovoltaic performance and impedance spectroscopy of ZnS-Cu-Go nanocomposites. **2018**, 44, 402-408		9
689	Synthesis of Luminescent N-Doped Carbon Dots by Hydrothermal Treatment. **2018**, 255, 1700222		10
688	Effects of CTAB concentration on the quality of graphene oxide nanosheets produced by green laser ablation. **2018**, 203, 235-242		13
687	Graphene-based devices for measuring pH. **2018**, 256, 976-991		84
686	Engineering carbon quantum dots for photomediated theranostics. **2018**, 11, 1-41		183
685	Using silicon nanoparticles to modify the surface of graphene nanosheets. **2018**, 75, 75-83		14
684	Carbon dots with red-shifted photoluminescence by fluorine doping for optical bio-imaging. **2018**, 128, 78-85		100
683	Synthesis of Carbon Dots with Multiple Color Emission by Controlled Graphitization and Surface Functionalization. *Advanced Materials*, **2018**, 30, 1704740	24	536
682	Barium borate nanorod decorated reduced graphene oxide for optical power limiting applications. **2018**, 75, 612-618		23
681	Hyperstage Graphite: Electrochemical Synthesis and Spontaneous Reactive Exfoliation. *Advanced Materials*, **2018**, 30, 1704538	24	28
680	Synthesis, characterization of graphene oxide wrapped silicon carbide for excellent mechanical and damping performance for aerospace application. **2018**, 740, 436-445		25
679	Strong enhancement of emission efficiency in GaN light-emitting diodes by plasmon-coupled light amplification of graphene. **2018**, 29, 055201		3
678	Strong optical nonlinearity of CdS/nitrogen-doped reduced graphene oxide nanocomposites using Z-scan technique. **2018**, 29, 2550-2560		4
677	Sonochemically synthesized blue fluorescent functionalized graphene oxide as a drug delivery system. **2018**, 42, 124-133		28

676	Low toxic fluorescent nanoprobe applicable for sensing pH changes in biological environment. **2018**, 257, 860-865	8
675	Green Strategy to Reduced Nanographene Oxide through Microwave Assisted Transformation of Cellulose. **2018**, 6, 1246-1255	29
674	Investigation of luminescence quantum yields of carbon dots synthesized from ethylene glycol, citric acid and berries. **2018**, 1124, 081002	
673	High photoresponsivity and light-induced carrier conversion in RGO/TSCuPc hybrid phototransistors. **2018**, 33, 3999-4006	
672	Synthesis and photoluminescence of graphdiyne. **2018**, 33, 516-521	11
671	Surface oxygen-containing defects of graphene nanosheets with tunable nonlinear optical absorption and refraction. **2018**, 20, 27105-27114	17
670	Toward Multi-Parametric Porous Silicon Transducers Based on Covalent Grafting of Graphene Oxide for Biosensing Applications. **2018**, 6, 583	8
669	Investigating the Properties of Graphite Oxide Suspension, Films, and Papers Produced from Natural Graphite of Southern Yakutia. **2018**, 59, 823-829	2
668	Graphene quantum dots from chemistry to applications. **2018**, 10, 221-258	306
667	Impact of γ-ray irradiation on graphene nano-disc non-volatile memory. **2018**, 113, 164103	8
666	Graphene-Based Nanomaterials and Their Applications in Biosensors. **2018**, 1064, 61-71	5
665	Investigation of surface potentials in reduced graphene oxide flake by Kelvin probe force microscopy. **2018**, 57, 06HD02	1
664	Size Fractionation of Fluorescent Graphene Quantum Dots Using a Cross-Flow Membrane Filtration System. **2018**, 8,	4
663	Tuning Carbon Dots' Optoelectronic Properties with Polymers. **2018**, 10,	13
662	Carbon Nanodots: A Review—from the Current Understanding of the Fundamental Photophysics to the Full Control of the Optical Response. **2018**, 4, 67	94
661	Covalent grafting of graphene oxide on functionalized macroporous silicon. **2018**, 4, 15-22	5
660	Study the Complex Dielectric and Energy loss function of Graphene oxide nanostructures using linear optical constant. **2018**,	
659	Molecular imaging with nanoparticles: the dwarf actors revisited 10 years later. **2018**, 150, 733-794	8

658	Iron oxide-carbon core-shell nanoparticles for dual-modal imaging-guided photothermal therapy. **2018**, 289, 70-78	41
657	Optoelectronics with single layer group-VIB transition metal dichalcogenides. **2018**, 7, 1589-1600	11
656	Molecular-Level Understanding of Selectively Photocatalytic Degradation of Ammonia via Copper Ferrite/N-Doped Graphene Catalyst under Visible Near-Infrared Irradiation. **2018**, 8, 405	5
655	Polyol Synthesis of Zinc Oxide-Graphene Composites: Enhanced Dye- Sensitized Solar Cell Efficiency. **2018**, 3, 52-60	6
654	Percolation Transition Under Thermal Reduction of Graphene Oxide. **2018**, 59, 806-814	7
653	N-Functionalized Graphene Quantum Dots with Ultrahigh Quantum Yield and Large Stokes Shift: Efficient Downconverters for CIGS Solar Cells. **2018**, 5, 4637-4643	30
652	Matrix-Free and Highly Efficient Room-Temperature Phosphorescence of Nitrogen-Doped Carbon Dots. **2018**, 34, 12845-12852	45
651	Investigation on photoluminescence emission of (reduced) graphene oxide paper. **2018**, 292, 012097	5
650	Carbon Dots in Water and Mesoporous Matrix: Chasing the Origin of their Photoluminescence. **2018**, 122, 25638-25650	32
649	Blue fluorescent graphene oxide hybrid: Synthesis, characterization, and application as a drug delivery system. **2018**, 48, 355-362	8
648	Carbon Dot Nanozymes: How to Be Close to Natural Enzymes. **2019**, 25, 954-960	19
647	Facile synthesis of multi-layer graphene by electrochemical exfoliation using organic solvent. **2018**, 7, 497-508	17
646	A Reduced Graphene Oxide Quantum Dot-Based Adsorbent for Efficiently Binding with Organic Pollutants. **2018**, 1, 6502-6513	23
645	Using Distributed Energy States of Graphene Quantum Dots for an Efficient Hole-Injection Media in an Organic Electroluminescent Device. **2018**, 39, 1912-1915	2
644	Hydrothermal Synthesis of Luminescent Carbon Dots from Glucose and Birch Bark Soot. **2018**, 59, 780-785	6
643	Enhancing the potency of surface hydroxyl groups of graphene oxide for selective oxidation of benzyl alcohol. **2018**, 90, 154-165	11
642	Comet-like Heterodimers "Gold Nanoflower @Graphene Quantum Dots" Probe with FRET "Off" to DNA Circuit Signal "On" for Sensing and Imaging MicroRNA In Vitro and In Vivo. **2018**, 90, 11538-11547	20
641	Advanced Smart Nanomaterials with Integrated Logic-Gating and Biocomputing: Dawn of Theranostic Nanorobots. **2018**, 118, 10294-10348	90

640	Synthesis of biologically-active reduced graphene oxide by using fucoidan as a multifunctional agent for combination cancer therapy. **2018**, 29, 475604	12
639	A Soluble Diketopyrrolopyrrole Derivative and Its Applications for Organic Phototransistors. **2018**, 7, 2330-2336	3
638	Room-temperature excitonic emission with a phonon replica from graphene nanosheets deposited on Ni-nanocrystallites/Si-nanoporous pillar array. **2018**, 5, 172238	1
637	Synergistic effect of UV and l-ascorbic acid on the reduction of graphene oxide: Reduction kinetics and quantum chemical simulations. **2018**, 84, 120-125	5
636	Synergy between quantum confinement and chemical functionality of graphene dots promotes photocatalytic H2 evolution. **2018**, 6, 18216-18224	8
635	Photo-and Electroluminescence from Nitrogen-Doped and Nitrogen□Sulfur Codoped Graphene Quantum Dots. **2018**, 28, 1804337	70
634	Mass production of tunable multicolor graphene quantum dots from an energy resource of coke by a one-step electrochemical exfoliation. **2018**, 140, 508-520	40
633	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. **2018**, 35, 1800080	14
632	Synthesis of Black Phosphorus Quantum Dots with High Quantum Yield by Pulsed Laser Ablation for Cell Bioimaging. **2018**, 13, 1842	23
631	In Situ Nanoreactors: Controllable Photoluminescent Carbon-Rich Polymer Nanodots Derived from Fatty Acid under Photoirradiation. **2018**, 39, e1800152	9
630	Optical limiting properties of (reduced) graphene oxide covalently functionalized by coordination complexes. **2018**, 375, 489-513	31
629	Prominence of fusion temperature and engineering heteroatoms on multifarious emissive shifts in carbon dots. **2018**, 528, 237-247	5
628	Self-assembly of graphene quantum dots into hydrogels and cryogels: Dynamic light scattering, UV□Vis spectroscopy and structural investigations. **2018**, 265, 172-180	21
627	Amino-functionalization of graphene nanosheets by electrochemical exfoliation technique. **2018**, 87, 99-106	10
626	Field-Effect Transistor Based on the Proton Conductivity of Graphene Oxide and Nafion Films. **2018** , 52, 352-358	1
625	Post-epoxidation of graphene quantum dots. **2018**, 706, 140-144	3
624	Structural features, magnetic properties and photocatalytic activity of bismuth ferrite nanoparticles grafted on graphene nanosheets. **2018**, 42, 10712-10723	21
623	Extraordinary Enhancement of UV Absorption in TiO2 Nanoparticles Enabled by Low-Oxidized Graphene Nanodots. **2018**, 122, 12114-12121	17

622	High-performance organic solar cells utilizing graphene oxide in the active and hole transport layers. **2018**, 171, 83-91	33
621	Photodegradation of phenanthrene catalyzed by rGO sheets and disk like structures synthesized using sugar cane juice as a reducing agent. **2018**, 204, 603-610	22
620	Biomedical Applications of Graphene Nanomaterials and Beyond. **2018**, 4, 2653-2703	123
619	Optical Characterization of Nanomaterials. **2018**, 269-299	8
618	Biopolymers-graphene oxide nanoplatelets composites with enhanced conductivity and biocompatibility suitable for tissue engineering applications. **2018**, 457-544	0
617	Structural defects in graphene. **2018**, 137-160	12
616	Sonochemically Assembled Photoluminescent Copper-Modified Graphene Oxide Microspheres. **2018**, 34, 8599-8610	7
615	Photocatalytic Reduction of Graphene Oxide-TiO Nanocomposites for Improving Resistive-Switching Memory Behaviors. **2018**, 14, e1801325	45
614	Photoluminescence tuning in carbon dots: surface passivation or/and functionalization, heteroatom doping. **2018**, 6, 7944-7970	181
613	Facile synthesis of nitrogen and sulfur co-doped carbon dots for multiple sensing capacities: alkaline fluorescence enhancement effect, temperature sensing, and selective detection of Fe3+ ions. **2018**, 42, 13147-13156	24
612	Egg-shell derived carbon dots for base pair selective DNA binding and recognition. **2018**, 20, 20476-20488	27
611	DUV fluorescence bioimaging study of the interaction of partially reduced graphene oxide and liver cancer cells. **2018**, 5, 045019	1
610	Review Article: Hydrogenated graphene: A user guide. **2018**, 36, 05G401	35
609	Functionalization of Graphene and Graphene Oxide for Plasmonic and Biosensing Applications. **2018**, 85-112	3
608	Bioinspired gold nanoparticles decorated reduced graphene oxide nanocomposite using Syzygium cumini seed extract: Evaluation of its biological applications. **2018**, 93, 191-205	38
607	Tailoring the properties of cerium doped zinc oxide/reduced graphene oxide composite: Characterization, photoluminescence study, antibacterial activity. **2018**, 44, 19725-19734	10
606	The effect of surface charge on the cytotoxicity and uptake of carbon quantum dots in human umbilical cord derived mesenchymal stem cells. **2018**, 171, 241-249	34
605	Citrate-Based Fluorescent Biomaterials. **2018**, 7, e1800532	28

604	Nanocarbon phase transformations controlled by solubility of carbon species in gold nanoparticles. **2018**, 88, 282-289	2
603	Optoelectronics Based Dynamic Advancement of Graphene: Characteristics and Applications. **2018**, 8, 171	5
602	One-pot synthesis of graphitic and nitrogen-doped graphitic layers on nickel nanoparticles produced by pulsed laser ablation in liquid: Solvent as the carbon and nitrogen source. **2018**, 457, 1050-1056	26
601	Origin and Perspectives of the Photochemical Activity of Nanoporous Carbons. **2018**, 5, 1800293	37
600	The Effect of Graphene Oxide Concentration on Luminescence Properity of Tb3+-Complexes. **2018**, 28, 2596-2602	6
599	Resolving the Multiple Emission Centers in Carbon Dots: From Fluorophore Molecular States to Aromatic Domain States and Carbon-Core States. **2018**, 9, 4189-4198	93
598	Recent advance in red-emissive carbon dots and their photoluminescent mechanisms. **2018**, 9, 103-113	42
597	Revealing hidden endotherm of Hummers' graphene oxide during low-temperature thermal reduction. **2018**, 138, 337-347	18
596	Tyramine Functionalized Graphene: Metal-Free Electrochemical Non-Enzymatic Biosensing of Hydrogen Peroxide. **2018**, 5, 3191-3197	18
595	One-pot hydrothermal synthesis of CuCo2S4/RGO nanocomposites for visible-light photocatalytic applications. **2018**, 123, 242-253	22
594	Theoretical study on electronic properties of curved graphene quantum dots. **2018**, 1140, 86-97	1
593	Atomic layer oxidation on graphene sheets for tuning their oxidation levels, electrical conductivities, and band gaps. **2018**, 10, 15521-15528	9
592	Nanostructured Graphene Oxide Dots: Synthesis, Characterization, Photoinduced Electron Transfer Studies, and Detection of Explosives/Biomolecules. **2018**, 3, 9096-9104	15
591	Controlled synthesis of blue luminescent graphene quantum dots from carbonized citric acid: Assessment of methodology, stability, and fluorescence in an aqueous environment. **2018**, 220, 11-22	29
590	High fluorescent sulfur regulating graphene quantum dots with tunable photoluminescence properties. **2018**, 529, 205-213	16
589	Localized electronic structures of graphene oxide studied using scanning tunneling microscopy and spectroscopy. **2018**, 20, 17977-17982	5
588	Luminescence tunability of europium functionalized graphene oxide sheets. **2018**, 5, 065039	2
587	Oxo-Functionalized Graphene: A Versatile Precursor for Alkylated Graphene Sheets by Reductive Functionalization. **2018**, 24, 13348-13354	13

586	Sensor Properties of Field-Effect Transistors Based on Graphene Oxide and Nafion Films with Proton Conductivity. **2018**, 92, 1355-1361	
585	A solvent-free gaseous detonation approach for converting benzoic acid into graphene quantum dots within milliseconds. **2018**, 87, 233-241	8
584	Enhancing the nonlinear optical properties of graphene oxide by repairing with palladium nanoparticles. **2018**, 103, 239-245	20
583	Ambient Condition Production of High Quality Reduced Graphene Oxide. **2018**, 5, 1800737	9
582	One-step synthesis of red/green dual-emissive carbon dots for ratiometric sensitive ONOO probing and cell imaging. **2018**, 10, 13589-13598	55
581	Luminescence in 2D Materials and van der Waals Heterostructures. **2018**, 6, 1701296	45
580	Electrochemical sensing platform for the determination of arsenite and arsenate using electroactive nanocomposite electrode. **2018**, 351, 319-327	21
579	Printing of Graphene and Related 2D Materials. **2019**,	18
578	2D Material Production Methods. **2019**, 53-101	2
577	Carbon dot-based fluorometric optical sensors: an overview. **2019**, 39, 179-197	7
576	High Yield Controlled Synthesis of Nano-Graphene Oxide by Water Electrolytic Oxidation of Glassy Carbon for Metal-Free Catalysis. **2019**, 13, 9482-9490	14
575	Intrinsic Emission from Nanographenes. **2019**, 14, 3213-3220	8
574	Tailoring fluorescence emissions, quantum yields, and white light emitting from nitrogen-doped graphene and carbon nitride quantum dots. **2019**, 11, 16553-16561	34
573	Manipulating the Optical Properties of Carbon Dots by Fine-Tuning their Structural Features. **2019**, 12, 4432-4441	19
572	A critical review on two-dimensional quantum dots (2D QDs): From synthesis toward applications in energy and optoelectronics. **2019**, 68, 100226	53
571	Biowaste derived graphene quantum dots interlaced with SnO2 nanoparticles a dynamic disinfection agent against Pseudomonas aeruginosa. **2019**, 43, 13681-13689	10
570	New Opportunities: Second Harmonic Generation of Boron-Doped Graphene Quantum Dots for Stem Cells Imaging and Ultraprecise Tracking in Wound Healing. **2019**, 29, 1902235	17
569	Converting waste Allium sativum peel to nitrogen and sulphur co-doped photoluminescence carbon dots for solar conversion, cell labeling, and photobleaching diligences: A path from discarded waste to value-added products. **2019**, 197, 111545	42

568	Graphene Quantum Dots for Optical Bioimaging. **2019**, 15, e1902136	92
567	Experimental and molecular modeling of interaction of carbon quantum dots with glucose. **2019**, 125, 1	3
566	Contrast Mechanisms of Solution-Dispersed Graphene Compounds in Twilight Fluorescence Microscopy. **2019**, 35, 10334-10340	0
565	Emission-wavelength-dependent photoluminescence decay lifetime of N-functionalized graphene quantum dot downconverters: Impact on conversion efficiency of Cu(In, Ga)Se solar cells. **2019**, 9, 10803	15
564	Functionalization of graphene layers and advancements in device applications. **2019**, 152, 954-985	61
563	Wavelength dependent light tunable resistive switching graphene oxide nonvolatile memory devices. **2019**, 153, 81-88	18
562	Synthesis of Single-Crystalline Hexagonal Graphene Quantum Dots from Solution Chemistry. **2019**, 19, 5437-5442	35
561	Blue and green luminescent carbon nanodots from controllable fuel-rich flame reactors. **2019**, 9, 14566	20
560	Graphene oxide size and structure pro-oxidant and antioxidant activity and photoinduced cytotoxicity relation on three cancer cell lines. **2019**, 200, 111647	14
559	Versatile and Tunable Electrical Properties of Doped Nonoxidized Graphene Using Alkali Metal Chlorides. **2019**, 11, 42520-42527	4
558	Evolution and Synthesis of Carbon Dots: From Carbon Dots to Carbonized Polymer Dots. **2019**, 6, 1901316	349
557	Graphene Structures: From Preparations to Applications. **2019**, 323-357	2
556	Self-Assembled Thin Films of Graphene Materials for Sensors. **2019**, 569-602	
555	Quantitative Real-Time Evaluation of C/O Ratios and Stepwise Control of Deoxidization of Graphene Oxide Using Plasmonic-Based Electrochemical Spectroscopy. **2019**, 731-765	
554	Sustainability, Research, and Development of Graphene for Engineering Applications. **2019**, 147-190	
553	Graphene-Based Scroll Structures: Optical Characterization and Its Application in Resistive Switching Memory Devices. **2019**, 261-283	
552	Excitons in Carbonic Nanostructures. **2019**, 5, 71	26
551	Nonlinear Optical Properties of Materials Based on Graphene Oxide: A Review. **2019**, 4, 151-159	1

550	Graphene Quantum Dots Band Structure Tuned by Size for Efficient Organic Solar Cells. **2019**, 216, 1900657	6
549	Nitrogen-Doped Graphene Quantum Dots as Metal-Free Photocatalysts for Near-Infrared Enhanced Reduction of 4-Nitrophenol. **2019**, 2, 7043-7050	17
548	Effect of initial precursor concentration on the spectral-luminescent characteristics and cytotoxicity of carbon nanoparticles. **2019**, 5, 025017	
547	One step synthesis of graphene quantum dots, graphene nanosheets and carbon nanospheres: investigation of photoluminescence properties. **2019**, 6, 105615	6
546	Photoluminescent graphene oxide porous particles in solution under environmental conditions produced by hydrothermal treatment. **2019**, 20, 100621	1
545	Graphite-like dynamical behaviour of graphite oxide. **2019**, 205, 04014	
544	Flower-Like ZnO-Decorated Polyaniline□raphene Oxide Nanocomposite for Electrochemical Oxidation of Imidacloprid: A Hybrid Nanocomposite Sensor. **2019**, 48, 7747-7755	9
543	Separation of europium using graphene oxide supported membranes. **2019**, 583, 123942	5
542	Rationally Engineered Nucleic Acid Architectures for Biosensing Applications. **2019**, 119, 11631-11717	114
541	Flexible Polycaprolactone and Polycaprolactone/Graphene Scaffolds for Tissue Engineering. **2019**, 12,	24
540	Preparation of multicolored carbon quantum dots using HNO3/HClO4 oxidation of graphitized carbon. **2019**, 34, 3428-3438	10
539	Facile preparation of N,S-graphene oxide nanosheets as a fluorescence □ff□n□sensing platform for sensitive detection of biothiols. **2019**, 43, 2790-2796	5
538	Concentration modulated photoluminescence and optical switching performance of graphene-oxide quantum dots. **2019**, 209, 116-120	2
537	Graphene Oxide as a Multifunctional Platform for Intracellular Delivery, Imaging, and Cancer Sensing. **2019**, 9, 416	63
536	Orientation of 4-n-octyl-4?-cyanobiphenyl molecules on graphene oxide surface via electron□phonon interaction and its applications in nonlinear electronics. **2019**, 7, 2734-2743	9
535	Carbon dots decorated graphene oxide nanosheets prepared by a novel technique with enhanced nonlinear optical properties. **2019**, 9, 015219	5
534	Degradation of Paracetamol Adsorbed on Inorganic Supports Under UV Irradiation. **2019**, 230, 1	5
533	Atomically-tailored graphene oxide displaying enhanced fluorescence for the improved optical sensing of MMP-2. **2019**, 284, 485-493	1

532	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. **2019**, 11, 1475-1504		97
531	Carbon nanospheres with dual-color emission and their application in ratiometric pyrophosphate sensing. **2019**, 144, 550-558		11
530	Color tunable room temperature phosphorescent carbon dot based nanocomposites obtainable from multiple carbon sources via a molten salt method. **2019**, 11, 11967-11974		46
529	P,N Codoped carbon dots as an efficient "off-on" fluorescent probe for lipoic acid detection and its cellular dual-color imaging. **2019**, 411, 3603-3612		3
528	Graphene Oxide: From Tunable Structures to Diverse Luminescence Behaviors. **2019**, 6, 1900855		47
527	Carbon-based quantum particles: an electroanalytical and biomedical perspective. **2019**, 48, 4281-4316		119
526	Graphene- and Graphene Oxide-Based Nanocomposite Platforms for Electrochemical Biosensing Applications. **2019**, 20,		59
525	Fluorescent carbon dots functionalization. **2019**, 270, 165-190		92
524	Controllable Formation of Luminescent Carbon Quantum Dots Mediated by the Fano Resonances Formed in Oligomers of Gold Nanoparticles. *Advanced Materials*, **2019**, 31, e1901371	24	13
523	Construction of biomass carbon dots based fluorescence sensors and their applications in chemical and biological analysis. **2019**, 118, 315-337		64
522	Origins of Efficient Multiemission Luminescence in Carbon Dots. **2019**, 31, 4732-4742		71
521	Diethylenetriamine-Doped Graphene Oxide Quantum Dots with Tunable Photoluminescence for Optoelectronic Applications. **2019**, 2, 3925-3933		12
520	Future Perspectives and Review on Organic Carbon Dots in Electronic Applications. **2019**, 13, 6224-6255		149
519	Synthesis of dual functional gallic-acid-based carbon dots for bioimaging and antitumor therapy. **2019**, 7, 3258-3265		25
518	Tuning of electrical hysteresis in PMMA/GOs/PMMA multi-stacked devices. **2019**, 6, 085108		7
517	Tunable excitation-independent emissions from graphene quantum dots through microplasma-assisted electrochemical synthesis. **2019**, 19, 100341		14
516	Fluorescence in Industry. **2019**,		2
515	Ultra-fast enrichment and reduction of As(V)/Se(VI) on three dimensional graphene oxide sheets-oxidized carbon nanotubes hydrogels. **2019**, 251, 945-951		19

514	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. **2019**, 1, 022001	66
513	Single-component warm-white-light materials with high color-rendering index based on Eu3+, Tb3+-complexes co-doped Laponite under mild reaction conditions. **2019**, 93, 6-10	4
512	Carbon quantum dots: an emerging material for optoelectronic applications. **2019**, 7, 6820-6835	128
511	Multi-color fluorescent carbon dots with single wavelength excitation for white light-emitting diodes. **2019**, 793, 613-619	26
510	Tunable light emission using crystalline carbon dots. **2019**, 48, 288-293	4
509	A smartphone-coalesced nanoprobe for high selective ammonia sensing based on the pH-responsive biomass carbon nanodots and headspace single drop microextraction. **2019**, 219, 382-390	11
508	Near-Infrared-Emitting Nitrogen-Doped Nanographenes. **2019**, 131, 9120-9124	8
507	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
506	Near-Infrared-Emitting Nitrogen-Doped Nanographenes. **2019**, 58, 9022-9026	26
505	Room-temperature magnetism and tunable energy gaps in edge-passivated zigzag graphene quantum dots. **2019**, 3,	19
504	Preparation and characterization of GO-ZnO nanocomposite for UV detection application. **2019**, 92, 243-250	46
503	Graphene oxide/ZnO nanorods/graphene oxide sandwich structure: The origins and mechanisms of photoluminescence. **2019**, 797, 1320-1326	21
502	Graphene oxide photonics. **2019**, 21, 053001	10
501	Moringa oleifera Leaf Extract Mediated Reduced Graphene Oxide/Ni(OH)2 Nanocomposite for Asymmetric Supercapacitors. **2019**, 49, 348-359	8
500	Tailoring electronic and optical parameters of bilayer graphene through boron and nitrogen atom co-substitution; an ab-initio study. **2019**, 480, 463-471	20
499	Time-Gated Luminescence Acquisition for Biochemical Sensing: miRNA Detection. **2019**, 213-267	2
498	Photocatalytic reforming of sugar and glucose into H2 over functionalized graphene dots. **2019**, 7, 8384-8393	18
497	Turn-On Fluorescent Assay of Biothiols Based on Nitrogen-Rich Polymer Carbon Nanostrips and Its Application in Cell Imaging. **2019**, 2019, 1-12	1

496	Tuning the response selectivity of graphene oxide fluorescence by organometallic complexation for neurotransmitter detection. **2019**, 11, 5254-5264	8
495	Carbon Nanodot Composites: Fabrication, Properties, and Environmental and Energy Applications. **2019**, 223-273	1
494	Formation of N-heterocyclic carbon quantum dots and their energy- and electron-transfer properties in photocatalysis. **2019**, 6, 065023	2
493	Exploring the fluorescence properties of reduced graphene oxide with tunable device performance. **2019**, 94, 59-64	6
492	Hollow ZnO microspheres functionalized with electrochemical graphene oxide for the photodegradation of salicylic acid.. **2019**, 9, 6965-6972	7
491	Holey graphene with enhanced near-infrared absorption: Experimental and DFT study. **2019**, 114, 091901	7
490	Highly photoluminescent N, P doped carbon quantum dots as a fluorescent sensor for the detection of dopamine and temperature. **2019**, 194, 61-70	32
489	Linear control of the oxidation level on graphene oxide sheets using the cyclic atomic layer reduction technique. **2019**, 11, 7833-7838	7
488	Facile preparation of orange-emissive carbon dots for the highly selective detection of silver ions. **2019**, 43, 5070-5076	9
487	Spectroscopic studies to investigate the effect of different plasma parameters on the geometrical and electronic structure of graphene. **2019**, 115, 433-440	2
486	Modification-Free Fabricating Ratiometric Nanoprobe Based on Dual-Emissive Carbon Dots for Nitrite Determination in Food Samples. **2019**, 67, 3826-3836	34
485	A carbon quantum dot□gold nanoparticle system as a probe for the inhibition and reactivation of acetylcholinesterase: detection of pesticides. **2019**, 43, 6874-6882	24
484	Synthesis of N-Doped Micropore Carbon Quantum Dots with High Quantum Yield and Dual-Wavelength Photoluminescence Emission from Biomass for Cellular Imaging. **2019**, 9,	35
483	Hydrothermal treatment of red lentils for the synthesis of fluorescent carbon quantum dots and its application for sensing Fe3+. **2019**, 91, 386-395	54
482	TiO□Decorated Graphene as a Fluorescent Chemosensor for the Detection of Silver Ions. **2019**, 19, 5189-5194	6
481	Microwave growth and tunable photoluminescence of nitrogen-doped graphene and carbon nitride quantum dots. **2019**, 7, 5468-5476	47
480	Determination of uranium in environmental sample by nanosensor graphene quantum dots. **2019**, 320, 757-763	7
479	Spectroscopy of Nanodiamond Surface: Investigation and Applications. **2019**, 363-413	2

478	pH Dependence of Ultrafast Charge Dynamics in Graphene Oxide Dispersions. **2019**, 123, 10677-10681	0
477	Recent Progress of Graphene-Based Photoelectrode Materials for Dye-Sensitized Solar Cells. **2019**, 2019, 1-16	18
476	Linear /nonlinear optical susceptibility spectroscopic constants of polyaniline@graphene oxide nanocomposite thin films. **2019**, 251, 30-39	7
475	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
474	Geometry modulation of ion diffusion through layered asymmetric graphene oxide membranes. **2019**, 55, 3140-3143	7
473	A comparative study of graphene oxide: Hummers, intermediate and improved method. **2019**, 13, 40-49	45
472	Gamma ray assisted modification of carbon quantum dot/polyurethane nanocomposites: structural, mechanical and photocatalytic study.. **2019**, 9, 6278-6286	8
471	Carbon quantum dots and their biomedical and therapeutic applications: a review.. **2019**, 9, 6460-6481	177
470	Reduced graphene oxide nanocomposites for optoelectronics applications. **2019**, 125, 1	16
469	Study of a saturation point to establish the doping density limit of silicon with graphene oxide. **2019**, 96, 116-121	3
468	Reaction Kinetics of Reducing Graphene Oxide at Individual Sheet Level Studied by Twilight Fluorescence Microscopy. **2019**, 123, 6881-6887	3
467	Polyaniline-Derived Nitrogen-Doped Graphene Quantum Dots for the Ultratrace Level Electrochemical Detection of Trinitrophenol and the Effective Differentiation of Nitroaromatics: Structure Matters. **2019**, 7, 6732-6743	36
466	Carbon dots synthesized by the m-trihydroxybenzene as the carbon source and its application on the detection of pH value. **2019**, 34, 341-346	12
465	Sub-10 nm stable graphene quantum dots embedded in hexagonal boron nitride. **2019**, 11, 4226-4230	15
464	Visible emission comparison from both ZnO thin films and nanoarrays spin-coated with GO layers*. **2019**,	
463	Influence of Group Modification at the Edges of Carbon Quantum Dots on Fluorescent Emission. **2019**, 14, 241	29
462	Ultra-high quantum yield ultraviolet fluorescence of graphitic carbon nitride nanosheets. **2019**, 55, 15065-15068	8
461	Facile one-pot synthesis of long-term thermally stable CDs@AlOOH toward white-light illumination. **2019**, 7, 14717-14724	6

460	Chemical Sensors Based on Two-Dimensional (2D) Materials for Selective Detection of Ions and Molecules in Liquid. **2019**, 7, 708	40
459	Designing of Ultrafine PdNPs Immobilized Pyridinic-N Doped Carbon and Evaluation of its Catalytic Potential for Konevenagel Condensation, Synthesis of 4H-pyran Derivatives and Nitroreduction. **2019**, 4, 12689-12700	5
458	Carbon Dots: A Mystic Star in the World of Nanoscience. **2019**, 2019, 1-19	53
457	Tris-(2-aminoethyl)amine-Intercalated Graphene Oxide as an Efficient 2D Material for Cerium-Ion Fluorescent Sensor Applications. **2019**, 4, 22431-22437	4
456	Synthesis and characterization of graphene quantum dots. **2019**, 5,	4
455	A multiwavelength emission detector for analytical ultracentrifugation. **2019**, 1, 4422-4432	3
454	Hydrochromic carbon dots as smart sensors for water sensing in organic solvents. **2019**, 1, 4258-4267	21
453	Decoration of graphene films with europium oxide through the R.F. sputtering technique. **2019**, 4, 2897-2905	
452	Semiempirical study on the absorption spectra of the coronene-like molecular models of graphene quantum dots. **2019**, 207, 1-5	11
451	A Facile and Simple Strategy for the Synthesis of Label Free Carbon Quantum Dots from the latex of Euphorbia milii and Its Peroxidase-Mimic Activity for the Naked Eye Detection of Glutathione in a Human Blood Serum. **2019**, 7, 1923-1932	26
450	Highly stable and selective measurement of Fe ions under environmentally relevant conditions via an excitation-based multiwavelength method using N, S-doped carbon dots. **2019**, 170, 443-451	9
449	A review on nanostructured carbon quantum dots and their applications in biotechnology, sensors, and chemiluminescence. **2019**, 196, 456-478	203
448	Graphene Oxide and Derivatives: The Place in Graphene Family. **2019**, 6,	121
447	Glyco-functionalized graphene oxides as green antibacterial absorbent materials. **2019**, 96, 176-184	4
446	Dual-emitting film with cellulose nanocrystal-assisted carbon dots grafted SrAlO, Eu, Dy phosphors for temperature sensing. **2019**, 206, 767-777	31
445	Synthesis of graphene on porous silicon for vapor organic sensor by using photoluminescence. **2019**, 180, 61-70	20
444	Nitrogen and Boron Dual-Doped Graphene Quantum Dots for Near-Infrared Second Window Imaging and Photothermal Therapy. **2019**, 14, 108-117	80
443	Separation of Spectroscopically Uniform Nanographenes. **2019**, 14, 1786-1791	7

442	One-pot millisecond preparation of quench-resistant solid-state fluorescence carbon dots toward an efficient lubrication additive. **2019**, 91, 255-260	7
441	Green reduction of graphene oxide and its applications in band gap calculation and antioxidant activity. **2019**, 7, 143-155	8
440	Energy-Dependent Spectral Analysis of Photon-Assisted Carrier Transport at Resonance in Graphene Oxide. **2019**, 7, 1800861	
439	Sulfur and Nitrogen Co-Doped Graphene Quantum Dots as a Fluorescent Quenching Probe for Highly Sensitive Detection toward Mercury Ions. **2019**, 2, 790-798	44
438	Optical properties of amine-functionalized graphene oxide. **2019**, 9, 567-578	7
437	The third order nonlinear optical properties of graphene oxide–zinc (II) naphthalocyanine hybrids and amino graphene oxide–zinc (II) naphthalocyanine hybrids. **2019**, 145, 640-649	16
436	Effect of the synthesis method on the properties of lithium doped graphene oxide composites with tin oxide nanoparticles: Towards white luminescence. **2019**, 129, 133-139	4
435	Carbon-based nanomaterials as an emerging platform for theranostics. **2019**, 6, 434-469	173
434	Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement. **2019**, 9, 12-17	4
433	Tunable luminescence of graphene oxide-polyaniline nano-composite: Effect of an anionic surfactant. **2019**, 206, 218-226	7
432	Preparation and photoluminescence properties of graphene quantum dots by decomposition of graphene-encapsulated metal nanoparticles derived from Kraft lignin and transition metal salts. **2019**, 206, 403-411	18
431	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions. **2019**, 95, 72-77	18
430	CuS as co-reaction accelerator in PTCA-KSO system for enhancing electrochemiluminescence behavior of PTCA and its application in detection of amyloid-protein. **2019**, 126, 222-229	43
429	Temperature-dependent microwave absorption properties of low-defect graphene oxide. **2019**, 6, 025609	
428	Tuning oxygen clusters on graphene oxide to synthesize graphene aerogels with crumpled nanosheets for effective removal of organic pollutants. **2019**, 143, 897-907	38
427	Nitrogen-doped porous carbon coated on graphene sheets as anode materials for Li-ion batteries. **2019**, 25, 1541-1549	8
426	Mutual modulation of F-distribution and N-configuration in F and N dual-functionalized graphene. **2019**, 465, 880-887	2
425	Polyelectrolyte-Graphene Oxide Multilayer Composites for Array of Microchambers which are Mechanically Robust and Responsive to NIR Light. **2019**, 40, e1700868	18

424	Gel Systems Doped with Chiral Carbon Dots for Optical Combination. **2020**, 3, 946-952	15
423	Nitrogen-Functionalized Graphene Quantum Dots: A Versatile Platform for Integrated Optoelectronic Devices. **2020**, 20, 429-439	6
422	Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO4/rGO) composite and evaluation of its photocatalytic activity. **2020**, 46, 1201-1215	17
421	Synthesis of Fluorescent Tremella-like Carbon Nanosheets and Their Application for Sensing of 2,4,6-trinitrophenol. **2020**, 53, 72-83	2
420	Synthesis and characterization of graphene oxide nanosheets. **2020**, 21, 408-410	22
419	Recent Advances and Sensing Applications of Carbon Dots. **2020**, 4, 1900387	75
418	Carbon quantum dot-incorporated nickel oxide for planar p-i-n type perovskite solar cells with enhanced efficiency and stability. **2020**, 818, 152887	17
417	Applications of Graphene and Its Derivatives in Chemical Analysis. **2020**, 50, 445-471	15
416	Leaching of AuNPs from the surface of GO: Sensitive turn on fluorescence detection of toxic preservative. **2020**, 309, 125751	3
415	Inorganic 2D Luminescent Materials: Structure, Luminescence Modulation, and Applications. **2020**, 8, 1900978	29
414	New functionalization of graphene oxide with N2O2 ligand for efficient loading of Cu nanostructures as a heterogeneous nanocatalyst for the synthesis of □-hydroxy-1,2,3-triazoles. **2020**, 34, e5426	4
413	Binder-free ultra-thin graphene oxide as an artificial solid electrolyte interphase for anode-free rechargeable lithium metal batteries. **2020**, 450, 227589	47
412	Amino-functionalization on graphene oxide sheets using an atomic layer amidation technique. **2020** , 8, 700-705	5
411	Physical properties and device applications of graphene oxide. **2020**, 15, 1	56
410	Recent developments in polydopamine fluorescent nanomaterials. **2020**, 7, 746-761	102
409	Single-layer boron-doped graphene quantum dots for contrast-enhanced in vivo T-weighted MRI. **2020**, 5, 573-579	14
408	Mechanisms behind excitation- and concentration-dependent multicolor photoluminescence in graphene quantum dots. **2020**, 12, 591-601	56
407	Thermal Emission Spectroscopy of Single, Isolated Carbon Nanoparticles: Effects of Particle Size, Material, Charge, Excitation Wavelength, and Thermal History. **2020**, 124, 1704-1716	4

406	The synthesis of carbon-based nanomaterials by pulsed laser ablation in water. **2020**, 7, 015002	20
405	Photoactivated Fluorescence Enhancement in F,N-Doped Carbon Dots with Piezochromic Behavior. **2020**, 59, 9986-9991	55
404	Organic acid participation strategy for the synthesis of highly fluorescent carbon dots and their application in dual-mode determination of copper ions. **2020**, 505, 144567	8
403	One-step hydrothermal synthesis of a flexible nanopaper-based Fe3+ sensor using carbon quantum dot grafted cellulose nanofibrils. **2020**, 27, 729-742	14
402	Improved Performance of Organic Light-Emitting Diodes Based on Oligomer Thin Films with Graphene. **2020**, 49, 2203-2210	2
401	Magnetic-induced graphene quantum dots for imaging-guided photothermal therapy in the second near-infrared window. **2020**, 232, 119700	83
400	Exciton Coherence Length and Dynamics in Graphene Quantum Dot Assemblies. **2020**, 11, 210-216	10
399	Selective synthesis of Au and graphitic carbon-encapsulated Au (Au@GC) nanoparticles by pulsed laser ablation in solvents: Catalytic Au and acid-resistant Au@GC nanoparticles. **2020**, 506, 145006	36
398	Graphene quantum dots as singlet oxygen producer or radical quencher - The matter of functionalization with urea/thiourea. **2020**, 109, 110539	19
397	Photoactivated Fluorescence Enhancement in F,N-Doped Carbon Dots with Piezochromic Behavior. **2020**, 132, 10072-10077	7
396	Ultra-radiant photoluminescence of glutathione rigidified reduced carbon quantum dots (r-CQDs) derived from ice-biryani for in vitro and in vivo bioimaging applications. **2020**, 586, 124266	11
395	Carbon nanomaterials with sp2 or/and sp hybridization in energy conversion and storage applications: A review. **2020**, 26, 349-370	35
394	Recycling hot-water extractions of lignocellulosic biomass in bio-refinery for synthesis of carbon nanoparticles with amplified luminescence and its application in temperature sensing. **2020**, 145, 112066	5
393	Carbon Dots Derived from Facile Tailoring of Shaerhu Lignite as a Novel Fluorescence Sensor with High-Selectivity and Sensitivity for Cu2+ Detection. **2020**, 5, 12125-12130	3
392	The feasible photoanode of graphene oxide/zinc aluminum mixed metal oxides for the dye-sensitized solar cell. **2020**, 39, 100313	7
391	Graphene Quantum Dots as Flourishing Nanomaterials for Bio-Imaging, Therapy Development, and Micro-Supercapacitors. **2020**, 11,	23
390	Properties of Bilayer Graphene Quantum Dots for Integrated Optics: An Ab Initio Study. **2020**, 7, 78	3
389	Donor-Acceptor Type Reduced Graphene-Oxide and a Tin-Selenide Nanohybrid With Broad and Ultrafast Optical Limiting Properties. **2020**, 8,	1

388	Dynamic Thermosensitive Solid-State Photoluminescent Carbonized Polymer Dots as Temperature-Responsive Switches for Sensor Applications. **2020**, 3, 10560-10564	6
387	Mechanochemical oxidation of graphite for graphene-hydrogel applications: Pitfalls and benefits. **2020**, 14, 100908	1
386	A review on graphene quantum dots and their nanocomposites: from laboratory synthesis towards agricultural and environmental applications. **2020**, 7, 3710-3734	41
385	Daunomycin delivery by ultrasmall graphene quantum dots to DNA duplexes: understanding the dynamics by resonance energy transfer. **2020**, 8, 9756-9763	5
384	Synthesis, characterization and bioimaging application of laser-ablated graphene-oxide nanoparticles (nGOs). **2020**, 104, 107733	29
383	Heteroatom doped carbon dots with nanoenzyme like properties as theranostic platforms for free radical scavenging, imaging, and chemotherapy. **2020**, 114, 343-357	23
382	Impact of electrical stress on total ionizing dose effects on graphene nano-disc non-volatile memory devices. **2020**, 114, 113882	
381	Nanolasers Based on 2D Materials. **2020**, 14, 2000271	13
380	Size-dependent electron transfer from atomically defined nanographenes to metal oxide nanoparticles. **2020**, 12, 16046-16052	6
379	Remarkable Band-Gap Renormalization via Dimensionality of the Layered Material C3B. **2020**, 14,	3
378	Non-covalent Functionalization of Graphene to Tune Its Band Gap and Stabilize Metal Nanoparticles on Its Surface. **2020**, 5, 18849-18861	12
377	Preparation of graphene quantum dots modified hydrogenated carboxylated nitrile rubber interpenetrating cross-linked film. **2020**, 298, 1361-1368	1
376	Highly luminescent polyethylene glycol-passivated graphene quantum dots for light emitting diodes.. **2020**, 10, 27418-27423	7
375	Oxygen migration and optical properties of coronene oxides and their persulfurated derivatives: insight into the electric field effect and the oxygen-site dependence. **2020**, 22, 20078-20086	1
374	Graphene quantum dots: Emerging organic materials with remarkable and tunable luminescence features. **2020**, 61, 152554	9
373	Yellow-Emitting Hydrophobic Carbon Dots via Solid-Phase Synthesis and Their Applications. **2020**, 5, 22587-22595	4
372	Recent advances in ultrathin two-dimensional materials and biomedical applications for reactive oxygen species generation and scavenging. **2020**, 12, 19516-19535	20
371	Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. **2020**, 13,	6

370	Facile synthesis of Se/BiVO4 heterojunction composite and evaluation of synergetic reaction mechanism for efficient photocatalytic staining of organic dye pollutants in wastewater under visible light. **2020**, 31, 19599-19612	3
369	Graphene Oxide Quantum Dot-Based Functional Nanomaterials for Effective Antimicrobial Applications. **2020**, 20, 1505-1515	4
368	In vivo self-degradable graphene nanomedicine operated by DNAzyme and photo-switch for controlled anticancer therapy. **2020**, 263, 120402	12
367	Silk fibroin-derived nitrogen-doped carbon quantum dots anchored on TiO2 nanotube arrays for heterogeneous photocatalytic degradation and water splitting. **2020**, 78, 105313	47
366	Variable Angle Spectroscopic Ellipsometry Characterization of Reduced Graphene Oxide Stabilized with Poly(Sodium 4-Styrenesulfonate). **2020**, 10, 743	6
365	Graphene Oxide Membrane Immobilized Aptamer as a Highly Selective Hormone Removal. **2020**, 10,	4
364	Triple Phase Inversion of Emulsions Stabilized by Amphiphilic Graphene Oxide and Cationic Surfactants. **2020**, 5, 23524-23532	3
363	Experimental dispersion of the third-order optical susceptibility of graphene oxide. **2020**, 10, 3041	2
362	Graphene Oxide-Based Nanohybrids as Pesticide Biosensors: Latest Developments. **2020**,	
361	Cytotoxicity and Bioimaging Study for NHDF and HeLa Cell Lines by Using Graphene Quantum Pins. **2020**, 10,	1
360	Crosslinked chitosan embedded TiO NPs and carbon dots-based nanocomposite: An excellent photocatalyst under sunlight irradiation. **2020**, 164, 3676-3686	9
359	Manipulating Exciton Transfer between Colloidal Quantum Dots and Graphene Oxide. **2020**, 124, 25038-25042	2
358	Production of gold/silver doped carbon nanocomposites for effective photothermal therapy of colon cancer. **2020**, 10, 7618	10
357	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. **2020**, 10, 7074	15
356	Facile Synthesis of Water-soluble Carbon Spheres for the Sensitive and Selective Determination of Fe, Cr, and Hg Ions. **2020**, 36, 1171-1176	2
355	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. **2020**, 21,	36
354	Synthesis, properties and potential applications of hydrogenated graphene. **2020**, 397, 125408	14
353	Nanobiosensing with graphene and carbon quantum dots: Recent advances. **2020**, 39, 23-46	30

352	Green synthesis of fluorescent N,S-carbon dots from bamboo leaf and the interaction with nitrophenol compounds. **2020**, 239, 118462	19
351	Polymer Liquid Crystal Devices and Displays. **2020**, 177-196	
350	Facile synthesis of hydrothermal stable hierarchically macro-mesoporous hollow microspheres Al2O3-graphene oxide composite: As a new efficient acid-base catalyst for transesterification reaction for biodiesel production. **2020**, 277, 118106	7
349	Influence of the synthesis conditions on the microstructural, compositional and morphological properties of graphene oxide sheets. **2020**, 46, 22067-22078	5
348	Origin of optical bandgap fluctuations in graphene oxide. **2020**, 93, 1	2
347	Influence of surface oxygen clusters upon molecular stacking of paclitaxel over graphene oxide sheets. **2020**, 116, 111232	10
346	Doxorubicin-loaded fluorescent carbon dots with PEI passivation as a drug delivery system for cancer therapy. **2020**, 12, 17222-17237	16
345	An ultrasonic-assisted synthesis of leather-derived luminescent graphene quantum dots: catalytic reduction and switch on-off probe for nitro-explosives.. **2020**, 10, 22959-22965	1
344	Plant Part-Derived Carbon Dots for Biosensing. **2020**, 10,	23
343	Rational Design of Carbon-Based 2D Nanostructures for Enhanced Photocatalytic CO Reduction: A Dimensionality Perspective. **2020**, 26, 9710-9748	83
342	C-Dot TiO nanorod composite for enhanced quantum efficiency under direct sunlight.. **2020**, 10, 19490-19500	3
341	Structure and Property Evolution of Graphene Oxide Sheets during Low-Temperature Reduction on a Solid Substrate. **2020**, 124, 14371-14379	2
340	Functional Nanomaterials. **2020**,	10
339	Optical properties of graphene oxide thin film reduced by low-cost diode laser. **2020**, 126, 1	2
338	Graphene Quantum Dots-Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. **2020**, 10, 2001275	52
337	DFT study on tailoring the structural, electronic and optical properties of bilayer graphene through metalloids intercalation. **2020**, 536, 110828	2
336	The application of photocatalytic materials for efficient air purification. **2020**, 109-126	
335	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. **2020**, 113, 100665	37

334	Relaxation dynamics of photoexcitations in TiO2 and its composites with Au/carbon nanotube (graphene). **2020**, 139, 105970	2
333	Development of luminescent atacamite nanoclusters for bioimaging and photothermal applications. **2020**, 31, 265102	2
332	Atomic-Scale Tuning of Graphene/Cubic SiC Schottky Junction for Stable Low-Bias Photoelectrochemical Solar-to-Fuel Conversion. **2020**, 14, 4905-4915	17
331	Modulating effect of graphine oxide loaded hesperidin nanocomposite on the 1,2-dimethylhydrazine provoked colon carcinogenesis in rats via inhibiting the iNOS and COX-2 pathways. **2020**, 13, 6708-6723	1
330	Enhanced Kerr Nonlinearity and Nonlinear Figure of Merit in Silicon Nanowires Integrated with 2D Graphene Oxide Films. **2020**, 12, 33094-33103	25
329	A 'one-tube' synthesis of a selective fluorescence 'turn off/on' DNA probe based on a C-phycocyanin-graphene oxide (CPC-GO) bio composite. **2020**, 163, 977-984	2
328	Photoluminescence modulation in the graphene oxide dispersed 4-n-octyl-4□cyanobiphenyl molecular system. **2020**, 226, 117509	6
327	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. **2020**, 12, 100091	26
326	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. **2020**, 30, 2001756	14
325	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. **2020**, 3, 6469-6477	9
324	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications. **2020**, 156, 112085	50
323	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. **2020**, 13, 100196	18
322	S,N-Codoped oil-soluble fluorescent carbon dots for a high color-rendering WLED. **2020**, 8, 4343-4349	24
321	Optical properties of graphene quantum dots: the role of chiral symmetry. **2020**, 7, 025041	2
320	Porphin-Based Carbon Dots for "Turn Off-On" Phosphate Sensing and Cell Imaging. **2020**, 10,	9
319	Graphene-based buffer layers for light-emitting diodes. **2020**, 99-116	
318	Current Trends in the Optical Characterization of Two-Dimensional Carbon Nanomaterials. **2019**, 7, 927	3
317	Antimicrobial activity of graphene oxide quantum dots: impacts of chemical reduction. **2020**, 2, 1074-1083	11

316	Hummers' and Brodie's graphene oxides as photocatalysts for phenol degradation. **2020**, 567, 243-255	25
315	Preparation and Performance of Radiata-Pine-Derived Polyvinyl Alcohol/Carbon Quantum Dots Fluorescent Films. **2019**, 13,	20
314	Principles, mechanisms, and application of carbon quantum dots in sensors: a review. **2020**, 12, 1266-1287	127
313	Achieving cadmium selenide-decorated zinc ferrite@titanium dioxide hollow core/shell nanospheres with improved light trapping and charge generation for photocatalytic hydrogen generation. **2020**, 575, 158-167	5
312	Recent advances in crystalline carbon dots for superior application potential. **2020**, 1, 525-553	37
311	Investigation on the Relationship Between Carbon Cores and Fluorescence Moieties by Measurement of Fluorescence Anisotropy of CDs with Different Sizes. **2020**, 36, 894-900	
310	Graphene-based quantum dot emitters for light-emitting diodes. **2020**, 117-150	2
309	Electrochemical synthesis of graphene quantum dots from graphene oxide at room temperature and its soil moisture sensing properties. **2020**, 165, 9-17	43
308	Reduced graphene oxide/SnO2 nanocomposites for the photocatalytic degradation of rhodamine B: Preparation, characterization, photosensitization, vectorial charge transfer mechanism and identification of reaction intermediates. **2020**, 748, 137385	26
307	Electrochemiluminescent CdTe Nanocrystal/Reduced Graphene Oxide Composite Films for the Detection of Diethylstilbestrol. **2020**, 3, 4670-4680	10
306	Incorporating graphene quantum dots to enhance the photoactivity of CdSe-sensitized TiO2 nanorods for solar hydrogen production. **2020**, 8, 13971-13979	35
305	Toward high-efficiency photoluminescence emission by fluorination of graphene oxide: Investigations from excitation to emission evolution. **2020**, 165, 386-394	13
304	Contribution of resonance energy transfer to the luminescence quenching of upconversion nanoparticles with graphene oxide. **2020**, 575, 119-129	8
303	Tuning the Physicochemical Structure of Graphene Oxide by Thermal Reduction Temperature for Improved Stabilization Ability toward Polymer Degradation. **2020**, 124, 8999-9008	6
302	Near Infrared-Emitting Nanoparticles for Biomedical Applications. **2020**,	9
301	Quantum Dot Optoelectronic Devices. **2020**,	1
300	Highly Efficient Orange Emissive Graphene Quantum Dots Prepared by Acid-Free Method for White LEDs. **2020**, 8, 6657-6666	18
299	Study of Optical and Electrical Properties of Graphene Oxide. **2021**, 36, 730-735	2

298	Preparation of blue- and green-emissive nitrogen-doped graphene quantum dots from graphite and their application in bioimaging. **2021**, 119, 111642		17
297	Current and future perspectives of carbon and graphene quantum dots: From synthesis to strategy for building optoelectronic and energy devices. **2021**, 135, 110391		52
296	Graphene Oxide for Integrated Photonics and Flat Optics. *Advanced Materials*, **2021**, 33, e2006415	24	24
295	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. **2021**, 5, 2000555		13
294	Mechanisms behind photocatalytic CO2 reduction by CsPbBr3 perovskite-graphene-based nanoheterostructures. **2021**, 284, 119751		18
293	Recent advances in the modification of carbon-based quantum dots for biomedical applications. **2021**, 120, 111756		51
292	Optically induced insulator-to-semiconductor transition in fluorescent carbon quantum dots measured by terahertz time-domain spectroscopy. **2021**, 174, 741-749		3
291	Novel fluorescent nitrogen-doped carbon dots derived from Panax notoginseng for bioimaging and high selectivity detection of Cr. **2021**, 146, 911-919		4
290	Plasmon induced hot electron generation in two dimensional carbonaceous nanosheets decorated with Au nanostars: enhanced photocatalytic activity under visible light. **2021**, 5, 1448-1467		27
289	Concentration-Dependent Photoluminescence Properties of Graphene Oxide. **2021**, 2, 2000045		2
288	Functionalized multi-walled carbon nanotubes with strong fluorescence emission. **2021**, 854, 157016		5
287	Characteristics of a Multiple-Layered Graphene Oxide Memory Thin Film Transistor with Gold Nanoparticle Embedded as Charging Elements. **2021**, 2021, 1-9		2
286	The optical properties and carrier mobility of MH (M = Co, Rh and Ir) monolayers. **2021**, 23, 18078-18084		1
285	Biocompatible hole scavenger-assisted graphene oxide dots for photodynamic cancer therapy. **2021**, 13, 8431-8441		3
284	Red-fluorescent graphene quantum dots from guava leaf as a turn-off probe for sensing aqueous Hg(II). **2021**, 45, 4617-4625		9
283	Potent E. coli M-17 Growth Inhibition by Ultrasonically Complexed Acetylsalicylic Acid□ZnO□Graphene Oxide Nanoparticles. **2021**, 4, 778-792		
282	Organic dots (O-dots) for theranostic applications: preparation and surface engineering.. **2021**, 11, 2253-2291		4
281	Pristine Graphic Carbon Nitride Quantum Dots for the Visualized Detection of Latent Fingerprints. **2021**, 37, 1497-1503		0

280	The Kuzbass Basin coals as a raw material for the preparation of carbon quantum dots. **2021**, 1749, 012046	
279	Graphene-Based Nanomaterials: Introduction, Structure, Synthesis, Characterization, and Properties. **2021**, 23-48	
278	Metal-free graphene-based nanoelectrodes for the electrochemical determination of ascorbic acid (AA) and p-nitrophenol (p-NP): implication towards biosensing and environmental monitoring. **2021**, 45, 4666-4674	4
277	A sandwich-type ECL immunosensor for the sensitive determination of CEA content based on red emission carbon quantum dots as luminophores. **2021**, 45, 12613-12621	0
276	Spectroscopic and Structural Investigation of Graphene Oxide Synthesized via Hummers Method. **2021**, 207-213	2
275	Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging. **2021**, 159-209	
274	Recent advances in graphene quantum dot-based optical and electrochemical (bio)analytical sensors. **2021**, 2, 5513-5541	11
273	Solvent regulation synthesis of single-component white emission carbon quantum dots for white light-emitting diodes. **2021**, 10, 465-477	7
272	Multifunctional carbon-based metal-free catalysts for advanced energy conversion and storage. **2021**, 2, 100328	24
271	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskite-Based Optoelectronic Devices. **2021**, 31, 2010768	13
270	Fluorescent Carbon Dots: Fantastic Electroluminescent Materials for Light-Emitting Diodes. **2021**, 8, 2001977	47
269	Synthesis of SiC/ graphene nanosheet composites by helicon wave plasma.	0
268	Optoelectronic Properties of Polycyclic Benzenoid Hydrocarbons of Various Sizes and Shapes for Donor-Acceptor Systems: A DFT Study. **2021**, 6, 2760-2769	3
267	Study on Nano Graphene Oxide Used to Enhance the Stability of Emulsion. **2021**, 692, 032020	
266	Progress and challenges in understanding of photoluminescence properties of carbon dots based on theoretical computations. **2021**, 22, 100924	23
265	The prospects and challenges of solar electrochemical capacitors. **2021**, 35, 102294	3
264	Tuning the Oxygen Content of Reduced Graphene Oxide and Effects on Its Properties. **2021**, 6, 6195-6205	16
263	Facile Synthesis of Green Fluorescent Carbon Dots and Application for Iron (III) Detection, Patterning and Cell Imaging. **2021**, 6, 3729-3736	2

262	Multifunctional polydopamine-based nanoparticles: synthesis, physico-chemical properties and applications for bimodal photothermal/photodynamic therapy of cancer. **2021**, 4, 022001	4
261	Surface modification of carbon dots by UV laser radiation. **2021**, 1866, 012005	1
260	Synthesis of nanodiamonds using liquid-phase laser ablation of graphene and its application in resistive random access memory. **2021**, 3, 100023	2
259	Photocatalytic Cellulose Reforming for H2 and Formate Production by Using Graphene Oxide-Dot Catalysts. **2021**, 11, 4955-4967	7
258	Variable-Angle Spectroscopic Ellipsometry of Graphene-Based Films. **2021**, 11, 462	2
257	Semiconductor heterojunction photocatalysts with near-infrared light antennas: a review. **2021**, 54, 313002	4
256	Effect of Solvent on Fluorescence Emission from Polyethylene Glycol-Coated Graphene Quantum Dots under Blue Light Illumination. **2021**, 11,	4
255	Reduced graphene oxide-carbon black composite supported iron phthalocyanine as a high-efficiency and stable catalyst for oxygen reduction reaction. **2021**, 189, 109254	3
254	Graphene Quantum Dots (GQDs) for Bioimaging and Drug Delivery Applications: A Review. **2021**, 3, 889-911	21
253	Tc radiolabeling of polyethylenimine capped carbon dots for tumor targeting: synthesis, characterization and biodistribution. **2021**, 97, 977-985	1
252	Fluorescent nitrogen-doped carbon nanodots synthesized through a hydrothermal method with different isomers. **2021**, 123, 302-302	7
251	Crumpled few-layer graphene: connection between morphology and optical properties. **2021**,	3
250	Composition and Structure of Fluorescent Graphene Quantum Dots Generated by Enzymatic Degradation of Graphene Oxide. **2021**, 125, 13361-13369	1
249	Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology. **2021**, 127, 1	1
248	Photoluminescence quenching of thermally treated waste-derived carbon dots for selective metal ion sensing. **2021**, 197, 111008	8
247	Graphene plasmon for optoelectronics. **2021**, 6, 100054	21
246	Reduce and concentrate graphene quantum dot size via scissors: vacancy, pentagon-heptagon and interstitial defects in graphite by gamma rays. **2021**, 34,	
245	Size Effect of Graphene Quantum Dots on Photoluminescence. **2021**, 26,	8

244	Electrospun polyacrylonitrile nanofibers as graphene oxide quantum dot precursors with improved photoluminescent properties. **2021**, 127, 105729	4
243	A fast, low-cost, sensitive, selective, and non-laborious method based on functionalized magnetic nanoparticles, magnetic solid-phase extraction, and fluorescent carbon dots for the fluorimetric determination of copper in wines without prior sample treatment. **2021**, 363, 130248	3
242	Radiative Rate Modulation Reveals Near-Unity Quantum Yield of Graphene Quantum Dots. **2021**, 9, 2100314	1
241	Graphene nanocomposites: A review on processes, properties, and applications. 152808372110242	5
240	Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. **2021**, 121, 9243-9358	40
239	Cesium-Doped Graphene Quantum Dots as Ratiometric Fluorescence Sensors for Blood Glucose Detection. **2021**, 4, 8437-8446	6
238	Understanding of Light Absorption Properties of the N-Doped Graphene Oxide Quantum Dot with TD-DFT. **2021**, 125, 14979-14990	6
237	Towards the development of antioxidant-wrapped graphene-based fluorescent nanomaterials having theranostic potentials: A combined experimental and theoretical study. **2021**, 4, 100042	
236	Graphene Quantum Dots-Ornamented Waterborne Epoxy-Based Fluorescent Adhesive via Reversible Addition-Fragmentation Chain Transfer-Mediated Miniemulsion Polymerization: A Potential Material for Art Conservation. **2021**, 13, 36307-36319	4
235	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. **2021**, 17, e2102091	8
234	Photoluminescence amplification of cerium incorporated graphene oxide nanoparticles by photoinduced reduction: A mechanistic study highlighting structural orderness. **2021**, 235, 118019	2
233	Synergy of semiconductor components of non-covalent functionalized (PdS doped)-G CdS NPs composite provide efficient photocatalytic water reduction under visible light. **2021**, 554, 149646	1
232	Facile Synthesis of Matrix-Free Room-Temperature Phosphorescent Nitrogen-Doped Carbon Dots and Their Application as Security Inks. 2100339	3
231	Singlet Oxygen Photosensitization Using Graphene-Based Structures and Immobilized Dyes: A Review. **2021**, 4, 7563-7586	4
230	Photoluminescence carbon nano dots for the conductivity based optical sensing of dopamine and bioimaging applications. **2021**, 117, 111120	13
229	Optical Properties of Carbon Dots in the Deep-Red to Near-Infrared Region Are Attractive for Biomedical Applications. **2021**, 17, e2102325	34
228	Carbon dots: An innovative luminescent nanomaterial. e108	3
227	Colorimetric and Turn-on Fluorescence detection of saccharin using silver nanoparticles-graphene oxide composite. **2021**, 341, 129967	3

226	Advances, opportunities, and challenge for full-color emissive carbon dots. **2021**,	7
225	The development of carbon dots: From the perspective of materials chemistry. **2021**, 51, 188-188	30
224	Photoluminescence enhancement of single-layer graphene quantum dots by the surface plasmon resonance of Au nanocubes. **2021**, 236, 118070	1
223	Femtosecond transient absorption spectroscopic study on the electronic structures of graphene oxides, graphene oxide nanoribbons and graphene quantum dots. **2021**, 11, 3486	
222	Graphene and its derivatives: understanding the main chemical and medicinal chemistry roles for biomedical applications. **2021**, 1-35	16
221	ZnO/Ag/graphene transparent conductive oxide film with ultrathin Ag layer. **2021**, 39, 052208	0
220	p-TiO2/GO heterojunction based VOC sensors: A new approach to amplify sensitivity in FET structure at optimized gate voltage. **2021**, 182, 109721	4
219	Solvent-controlled synthesis of full-color carbon dots and its application as a fluorescent food-tasting sensor for specific recognition of jujube species. **2021**, 342, 129963	3
218	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. **2021**, 2, 031303	9
217	Magnetite/graphene oxide/Prussian blue composite with robust effectiveness for electromagnetic interference shielding. **2021**,	0
216	Modulating photon harvesting through dynamic non-covalent interactions for enhanced photochemical CO2 reduction. **2021**, 292, 120157	16
215	Modification of hydrophilic, optical and electrical properties of bisphenol-A based polycarbonate polymeric films using DC O2 plasma. **2021**, 28, 1	0
214	GQD embedded bacterial cellulose nanopaper based multi-layered filtration membranes assembly for industrial dye and heavy metal removal in wastewater. **2021**, 28, 10385	2
213	Electrochemical detection of cortisol on graphene quantum dots modified electrodes using a rationally truncated high affinity aptamer. 1	2
212	Doping and Surface Modification of Carbon Quantum Dots for Enhanced Functionalities and Related Applications. **2021**, 38, 2100170	13
211	Anti-counterfeiting application of fluorescent carbon dots derived from wasted coffee grounds. **2021**, 241, 166449	7
210	Synthesis and plasma treatment of nitrogen-doped graphene fibers for high-performance supercapacitors. **2021**, 48, 2058-2058	3
209	Tunable Organelle Imaging by Rational Design of Carbon Dots and Utilization of Uptake Pathways. **2021**, 15, 14465-14474	12

208	Dielectric and electrical properties of synthesized PBGO/Fe3O4 nanocomposite. **2021**, 47, 26224-26232	4
207	Oxidative synthesis of yellow photoluminescent carbon nanoribbons from carbon black. **2021**, 183, 495-503	4
206	Structural features regulated photoluminescence intensity and cell internalization of carbon and graphene quantum dots for bioimaging. **2021**, 129, 112366	8
205	Phase reversal behavior on two-dimension plane of fluorinated graphene during defluorination. **2021**, 183, 660-671	3
204	The applications of graphene oxide quantum dots in the removal of emerging pollutants in water: An overview. **2021**, 43, 102249	4
203	Nonlinear optical properties of poly (vinyl alcohol) thin films doped with in-situ WSe2/rGO composite. **2021**, 142, 107198	1
202	TiO2/Carbon allotrope nanohybrids for supercapacitor application with theoretical insights from density functional theory. **2021**, 563, 150259	6
201	A fluorometric and colorimetric dual-readout nanoprobe based on Cl and N co-doped carbon quantum dots with large stokes shift for sequential detection of morin and zinc ion. **2021**, 261, 120028	1
200	Combined experimental and theoretical studies on enlarged bandgap and improved photoelectrochemical properties of reduced graphene oxide film by hydrogen annealing. **2021**, 900, 115722	1
199	A facile green synthesis of functionalized carbon quantum dots as fluorescent probes for a highly selective and sensitive detection of Fe ions. **2021**, 262, 120132	14
198	Surface plasmon-induced photodegradation of methylene blue with single layer graphene quantum dots/Au nanospheres under visible-light irradiation. **2021**, 885, 160904	3
197	Luminescent properties of carbon dots originated from pine pollen for anti-counterfeiting application. **2022**, 145, 107452	2
196	Dual recognition strategy for selective fluorescent detection of dopamine and antioxidants based on graphite carbon nitride in human blood serum. **2022**, 265, 120385	2
195	Fluorescence Spectrometry. **2021**, 431-468	
194	CHAPTER 1:Introduction. **2021**, 1-23	
193	Recent advances and prospects in reduced graphene oxide-based photodetectors. **2021**, 9, 8129-8157	6
192	Graphene oxide-based fluorescent biosensors and their biomedical applications in diagnosis and drug discovery. **2021**, 57, 9820-9833	5
191	Functionalized graphene-based nanocomposites for smart optoelectronic applications. **2021**, 10, 605-635	7

190	Studies on the Optical and Structural Properties of Exfoliated Graphene Oxide. **2021**, 465-471	
189	New Advances of the Nanotechnology in Textile Engineering: Functional Finishing with Quantum Dots and Others Nanoparticles. **2021**, 239-281	
188	Influence of carbon dot synthetic parameters on photophysical and biological properties. **2021**, 13, 11138-11149	9
187	Carbon-Based Quantum Dots for Supercapacitors: Recent Advances and Future Challenges. **2021**, 11,	36
186	CHAPTER 5:Optical Properties of Polymer Functionalized Graphene: Application as Optical Sensor. **2021**, 133-163	
185	Influence of carbon nano-dots in water on sonoluminescence. **2021**, 13, 14130-14138	1
184	Surface Plasmon Resonance Enhanced UV Emission of Hydrothermally Grown ZnO Nanorods by Reduced Graphene Oxide. **2019**, 1293-1299	1
183	Structural Modeling and Physical Properties. **2015**, 31-56	3
182	Graphene Oxide (GO) Nanocomposite Based Room Temperature Gas Sensor. **2020**, 303-328	0
181	Graphitic carbon nitride nanodots: electronic structure and its influence factors. **2020**, 55, 5488-5498	1
180	Drug-eluting PCL/graphene oxide nanocomposite scaffolds for enhanced osteogenic differentiation of mesenchymal stem cells. **2020**, 115, 111102	25
179	Carbon Dots: Highlight on Their Synthesis, Properties and Applications in Tumor Imaging and Therapy. **2017**, 9, 1827-1848	4
178	Time-Resolved Luminescence Properties of Laser-Fabricated Nano-diamonds. **2020**, 15, 168	2
177	One-step synthesis of sulfur-incorporated graphene quantum dots using pulsed laser ablation for enhancing optical properties. **2020**, 28, 21659-21667	20
176	Production of fluorescent nano-diamonds through femtosecond pulsed laser ablation. **2019**, 9, 4734	13
175	Stable copper nanowire-graphene oxide thin films for nonlinear photonics. **2019**, 2, 1455	2
174	Oxygen-containing-defect-induced synergistic nonlinear optical enhancement of graphene/CdS nanohybrids under single pulse laser irradiation. **2018**, 6, 1158	17
173	Preparation of organic light-emitting diode using coal tar pitch, a low-cost material, for printable devices. **2013**, 8, e62903	6

172	Design and Synthetic Scheme of Water Dispersible Graphene Oxide-Coumarin Complex for Ultra-Sensitive Fluorescence Based Detection of Copper (Cu2+) Ion in Aqueous Environment. **2014**, 03, 45-51	5
171	Changing the sp2Carbon Clusters in Graphene Oxide During Exfoliation. **2015**, 16, 49-52	3
170	Controllable Synthesis of Fluorescent Carbon Dots and Their Detection Application as Nanoprobes. **2013**, 5, 247	7
169	Layer-by-Layer Assembled Transparent Conductive Graphene Films for Silicon Thin-Film Solar Cells. **2012**, 51, 11PF01	7
168	Highly stable and bright blue light-emitting diodes based on carbon dots with a chemically inert surface.	1
167	Synthesis, Properties and Applications of Luminescent Carbon Dots. **2021**, 421-460	
166	Optical encoding of luminescent carbon nanodots in confined spaces. **2021**, 57, 11952-11955	1
165	Permeation pathway of two hydrophobic carbon nanoparticles across a lipid bilayer. **2021**, 133, 1	1
164	Progress in pulsed laser ablation in liquid (PLAL) technique for the synthesis of carbon nanomaterials: a review. **2021**, 127,	8
163	Investigation of optical properties, chemical network and electronic environments of polycaprolactone/reduced graphene oxide fiber nanocomposites. 1	3
162	Colorimetric-fluorescent Dual-mode Sensing of Peroxide Explosives Based on Inner Filter Effect with Boosted Sensitivity and Selectivity. **2021**,	0
161	Preparation and properties of carbon thin films from the dispersion of graphite oxide or organically modified graphite oxides. **2010**, 2010, 200-205	1
160	Graphene: Illuminating discovery. **2010**, 2, 49-49	
159	Graphene. **2013**, 1-46	
158	Graphene. **2013**, 1-30	
157	References. 257-276	
156	Grapheneoxide: preparation, properties, applications (review). **2015**, 6, 413-448	2
155	Zastosowania grafenu. **2016**,	

154	Graphene and Carbon Dots in Mesoporous Materials. **2016**, 1-30	
153	Characterization of Nanocarbons: From Graphene to Graphene Nanoribbons (GNRs) and Quantum Dots (GQDs). **2017**, 315-338	
152	Literature Review. **2018**, 1-50	
151	Graphene and Carbon Dots in Mesoporous Materials. **2018**, 2339-2368	
150	[illegible] **2018**, 1111-1118	
149	Application of Reduced Graphene Oxide (rGO) for Stability of Perovskite Solar Cells. **2019**, 203-229	
148	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption.	1
147	Paper Sensors Based on Fluorescence Changes of Carbon Nanodots for Optical Detection of Nanomaterials. **2021**, 13, 11896	0
146	Efficiency enhancement of cobalt tungstate by fabrication of heterojunction nanocomposite for photodegradation of pollutants. **2021**, 32, 28515	
145	Preparation of Graphene Oxide Based Hydrogel for Diabetics Foot Ulcer. 993, 012164	
144	The synthetic strategies, photoluminescence mechanisms and promising applications of carbon dots: Current state and future perspective. **2022**, 186, 91-127	26
143	Tuned structures and enhanced photoluminescence of WO3- nanomaterials by TiO2. **2022**, 275, 115516	2
142	Nanoionic Devices for Physical Property Tuning and Enhancement. **2020**, 161-174	1
141	Near Infrared-Emitting Carbon Nanomaterials for Biomedical Applications. **2020**, 133-161	1
140	Optimization of Reducing Agents for Selective Bandgap Manipulation in Visible Region of Graphene Oxide and Its Work Function Estimation. **2020**, 9, 20190177	1
139	Bioresource-Derived Graphene Quantum Dots: A Tale of Sustainable Materials and Their Applications. **2020**, 231-251	0
138	Fluorescent Carbon Nanostructures. **2020**, 357-399	
137	Microwave assisted ultrafast synthesis of graphene oxide based magnetic nano composite for environmental remediation. **2021**, 48, 4821-4821	0

136	Honokiol-camptothecin loaded graphene oxide nanoparticle towards combinatorial anti-cancer drug delivery. **2020**, 14, 796-802	6
135	Ab Initio Calculations of the Electronic Properties and the Transport Phenomena in Graphene Materials. **2020**, 62, 2224-2231	2
134	Transforming Carbon Black into Graphene Oxide Quantum Dots by Pulsed Laser Ablation in Ethanol. **2020**, 58, 808-814	1
133	Electrochemical cardiac troponin I immunosensor based on nitrogen and boron-doped graphene quantum dots electrode platform and Ce-doped SnO2/SnS2 signal amplification. **2022**, 23, 100666	16
132	Two-photon ratiometric carbon dot-based probe for real-time intracellular pH monitoring in 3D environment. **2021**, 133668	3
131	Phonon Bottleneck in Temperature-Dependent Hot Carrier Relaxation in Graphene Oxide.	2
130	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. **2021**,	1
129	Electroluminescence and photocatalytic hydrogen evolution of S,N co-doped graphene oxide quantum dots.	2
128	Investigation of plasma-assisted functionalization of pristine single layer graphene. **2022**, 789, 139330	0
127	Room temperature photoluminescent study of thermally grown reduced graphene oxide quantum dots. **2022**, 136, 109164	0
126	Progress in the development of photoactivated materials for smart and active food packaging: Photoluminescence and photocatalysis approaches. **2022**, 432, 134301	3
125	Thermal stability of C-F/C(-F) bonds in fluorinated graphene detected by heating infrared spectroscopy. **2021**, 23, 26853-26863	0
124	Enhanced and Tunable Surface Plasmons Assisted Emission from Reduced Graphene Oxide and Gold Hybrid Configuration. **2021**,	
123	Edge-oxidation induced non-radiative recombination dynamics in graphene quantum dots: a theoretical insight from Fermi golden rule.	0
122	Preparation and structure tuning of graphene quantum dots for optical applications in chemosensing, biosensing, and bioimaging. **2022**, 41-77	
121	Synthesis, functionalization, and optical sensing applications of graphene oxide. **2022**, 79-118	
120	Intramolecular Amino-thiolysis Cyclization of Graphene Oxide Modified with Sulfur Dioxide: XPS and Solid-State NMR Studies. **2022**, 126, 1729-1741	0
119	Metal-Organic Frameworks Encapsulating Carbon Dots Enable Fast Speciation of Mono- and Divalent Copper.. **2022**,	0

118	Tailoring the Nonlinear Optical Response of Some Graphene Derivatives by Ultraviolet (UV) Irradiation.. **2022**, 12,	1
117	Narrow-bandwidth emissive carbon dots: A rising star in the fluorescent material family. **2022**, 4, 88-114	4
116	Surface enhanced FRET for sensitive and selective detection of doxycycline using organosilicon nanodots as donors.. **2022**, 1197, 339530	4
115	Upgrading of flax powder and short fibers into high value-added products. **2022**, 10, 107195	
114	Graphene quantum dots: A contemporary perspective on scope, opportunities, and sustainability. **2022**, 157, 111993	6
113	Functional Nanomaterials Synthesized by Femtosecond Laser Pulses. **2022**, 219-235	0
112	Synthesis and photoluminescence properties of orange-red carbon dots from the paper tissues as the precursor.. **2022**, 61, 2118-2124	1
111	Synthesis of a graphene oxide/agarose/hydroxyapatite biomaterial with the evaluation of antibacterial activity and initial cell attachment.. **2022**, 12, 1971	3
110	Yellow-Emissive Carbon Dots with High Solid-State Photoluminescence. 2110393	8
109	A simple fluorescent strategy for liver capillary labeling with carbon quantum dot-lectin nanoprobe.. **2022**,	1
108	Graphene-Based Nanomaterials for Biomedical Imaging.. **2022**, 1351, 125-148	0
107	Ultrasensitive ratiometric fluorescent probes for Hg(II) and trypsin activity based on carbon dots and metalloporphyrin a target recycling amplification strategy.. **2022**,	0
106	Zn-assisted modification of the chemical structure of N-doped carbon dots and their enhanced quantum yield and photostability.	2
105	Carbon Dots: Fundamental Concepts and Biomedical Applications. **2022**, 83-108	
104	AlCl3-promoted growth of alkylated carbon dots with an enhanced nonlinear optical response. **2022**, 10, 5576-5581	2
103	Enhanced Probe Bonding and Fluorescence Properties through Annealed Graphene Oxide Nanosheets.. **2022**,	0
102	Simple One-step Solid-state Synthesis of Highly Crystalline N Doped Carbon Dots As Selective Turn Off-sensor for Picric Acid and Metanil Yellow.. **2022**, 1	1
101	Plasmonically Enhanced Colloidal Quantum Dot/Graphene Doped Polymer Random Lasers.. **2022**, 15,	

100	Metal-enhanced fluorescence of graphene oxide sheets.. **2022**, 1	0
99	Biomass-derived porous carbon and colour-tunable graphene quantum dots for high-performance supercapacitor and selective probe for metal ion detection.	2
98	Thermal, mechanical and water barrier properties of graphene oxide/polyvinyl alcohol/polyol composite films. **2022**, 100456	0
97	Study of the effect of CNTs, and (CNTs-ZnO) on the porous silicon as sensor for acetone gas detection. **2022**, 259, 168825	1
96	Detection of tetracycline antibiotics using fluorescent "Turn-off" sensor based on S, N-doped carbon quantum dots.. **2022**, 274, 121033	1
95	Graphene oxide and its films produced using a nebulizer spray coating method. **2022**, 151, 111806	1
94	Recent progress of fluorescent materials for fingermarks detection in forensic science and anti-counterfeiting. **2022**, 462, 214523	5
93	Electrophoresis-Aided Biomimetic Mineralization System Using Graphene Oxide for Regeneration of Hydroxyapatite on Dentin.. **2021**, 15,	1
92	Carbon Nanomaterials for Theranostic Use. **2022**, 8, 3	3
91	Boron Carbon Oxynitride as a Novel Metal-Free Photocatalyst. **2021**, 16, 176	1
90	Molecular Insights of Carbon Nanodots Formation and Their Two-Photon Emission Properties. **2022** , 3, 2100092	1
89	Properties and applications of quantum dots derived from two-dimensional materials. **2022**, 7,	
88	High-temperature pyrolysis behavior and structural evolution mechanism of graphene oxide: a ReaxFF Molecular Dynamics Simulation. **2022**, 153451	0
87	Selective Response Studies of Graphene Materials with Forensic Relevant Drugs Through Fluorescence Spectroscopy. **2022**, 77, 495-504	
86	Biomass-derived porous carbon with high drug adsorption capacity undergoes enzymatic and chemical degradation.. **2022**, 622, 87-96	1
85	One-pot synthesis of single-component graphene quantum dots for stable and bright white luminescence films as a phosphor. **2022**, 127, 112368	1
84	Presentation_1.pdf. **2018**,	
83	Ratiometric fluorescent sensors for nitrite detection in the environment based on carbon dot/Rhodamine B systems.. **2022**, 12, 12655-12662	1

82	The Role of N and S Doping on Photoluminescent Characteristics of Carbon Dots from Palm Bunches for Fluorimetric Sensing of Fe Ion.. **2022**, 23,	3
81	Luminescence Reduced Graphene Oxide Based Photothermal Purification of Seawater for Drinkable Purpose. **2022**, 12, 1622	1
80	Improving Thermal and Photostability of Polymer Solar Cells by Robust Interface Engineering.. **2022**, e2107834	1
79	Boosting optical nonlinearities of graphene oxide films by laser direct writing. **2022**, 128, 112454	
78	Facile synthesis of dual emission carbon dots for the ratiometric fluorescent detection of 2,4,6-trinitrophenol and cell imaging. **2022**, 1263, 133167	0
77	Continuous flow fabrication of green graphene oxide in aqueous hydrogen peroxide.	1
76	Biobased carbon dots production via hydrothermal conversion of microalgae Chlorella pyrenoidosa. **2022**, 156144	0
75	Laser ablation assisted synthesis of graphene/CuO nanocomposite: effect of laser fluence. 1-10	
74	Pressure-Induced Bifurcation in the Photoluminescence of Red Carbon Quantum Dots: Coexistence of Emissions from Surface Groups and Nitrogen-Doped Cores. **2022**, 13, 4768-4777	2
73	Unraveling the Origin of Photoluminescence in Dual Emissive Biogenic Carbon Dot. **2022**, 103777	0
72	Zinc oxide-decorated graphene oxide nanocomposites for industrial volatile organic compound chemical sensor applications. **2022**, 219-249	
71	Cooccurrence of pH-sensitive shifting blue and immobile green triple surface-state fluorescence in ultrasmall super body-centered cubic carbon quantum dots.	1
70	Tunable photoluminescence emission from surface-state to carbon core-state of PAMAM carbonized polymer dots and its high-sensitive detection of copper(II). **2022**, 648, 129441	0
69	Carbon-dot doped, transfer-free, low-temperature, high mobility graphene using microwave plasma CVD. **2022**, 12, 20610-20617	1
68	Giant Nonlinear Optical Response of Graphene Oxide Thin Films Under the Photochemical and Photothermal Reduction. 2200890	0
67	Unravelling the Surface-State Assisted Ultrafast Charge Transfer Dynamics of Graphene Quantum Dot-Based Nanohybrids via Transient Absorption Spectroscopy. **2022**, 126, 11182-11192	0
66	Improved resistive switching of RGO and SnO2 based resistive memory device for non-volatile memory application. **2022**, 166196	0
65	Photoluminescence and Fluorescence Quenching of Graphene Oxide: A Review. **2022**, 12, 2444	2

64	Nonvolatile Memristive Devices Based on In Situ Functionalized Layered rGO-MoS2 Nanocomposites. **2022**, 11, 071003	0
63	Optical Visualization of Red-GQDs Organelles Distribution and Localization in Living Cells. 13,	
62	Enhanced nonlinear absorptive behaviour of phenylcalix[4]resorcinarene-graphene oxide nanocomposite. **2022**, 131, 112557	0
61	The ON-OFF Microwave Reaction Time Technique: A Novel Strategy to Impact the Fluorescence of Multi-Color Emissive Carbon Dots. **2022**, 129735	1
60	Photo-Thermal Tuning of Graphene Oxide Coated Integrated Optical Waveguides. **2022**, 13, 1194	2
59	Multiplex heteroatoms doped carbon nano dots with enhanced catalytic reduction of ionic dyes and QR code security label for anti-spurious applications. **2022**, 136003	1
58	Investigation of dispersion behavior of GO in aqueous and effect of ultra-low dosage GO on structure and properties of cement-based composites. **2022**, 350, 128828	0
57	Time-evolved doping of graphene on an oxidized polycrystalline Cu surface. **2022**, 199, 279-287	
56	Platinum/carbon dots nanocomposites from palm bunch hydrothermal synthesis as highly efficient peroxidase mimics for ultra-low H2O2 sensing platform through dual mode of colorimetric and fluorescent detection. **2022**, 1230, 340368	0
55	Impact of reduced graphene oxide on the sensing performance of Poly (3, 4 thylenedioxythiophene) towards highly sensitive and selective CO sensor: A comprehensive study. **2022**, 291, 117166	0
54	Carbon dots-based electrochemical sensors. **2023**, 109-136	0
53	The role of molecular fluorophores in the photoluminescence of carbon dots derived from citric acid: current state-of-the-art and future perspectives.	1
52	Carbon dots and miniaturizing fabrication of portable carbon dots-based devices for bioimaging, biosensing, heavy metals detection and drug delivery applications.	0
51	Facile synthesis of a luminescent carbon material from yogurt for the efficient photocatalytic degradation of methylene blue. **2022**, 12, 25549-25564	2
50	A Two-Step Process for Reduced Graphene Oxide Films With Work Function Tunability. **2022**, 21, 481-488	0
49	Carbon nanodots derived from biomass and their spectral-matching sensing of chromium (VI).	0
48	Waste Polystyrene-derived Sulfonated Fluorescent Carbon Nanoparticles for Cation Sensing. **2022**, 7,	0
47	Synthesis of Green and Red-Emitting Polymethyl Methacrylate Composites Grafted from ZnAl2O4:Mn-Bonded GO via Surface-Initiated Atom Transfer Radical Polymerization. **2022**, 14, 3689	0

46	Changing the Microstructural and Chemical Properties of Graphene Oxide Through a Chemical Route. 000370282211270	0
45	Optical properties of reduced graphene oxide sheets. 209-218	0
44	Tuning the properties of graphene quantum dots by passivation. **2022**, 24, 26232-26240	0
43	Revealing the synergetic interaction between amino and carbonyl functional groups and their effect on the electronic and optical properties of carbon dots.	2
42	Cu(ii)-assisted self-assembly of dicyandiamide-derived carbon dots: construction inspired from chemical evolution and its H2O2 sensing application.	0
41	Recent Progress of Carbon Dots for Air Pollutants Detection and Photocatalytic Removal: Synthesis, Modifications, and Applications. 2200744	0
40	Synthesis of size-selected Pt/GONR nanocomposites for visible-light-enhanced methanol oxidation reaction in an alkaline solution.	0
39	Dynamic control of the mode-locked fiber laser using a GO/PS modulator.	0
38	Development of a three-dimensional graphene-based photoelectrochemical biosensor and its use for monitoring lipase activity. **2022**, 170, 114076	0
37	Novel Mussaenda glabrata leaves extract for facile green synthesis of reduced graphene oxide with enhanced Rhodamine B dye removal efficiency. **2022**, 30, 100868	0
36	Photoreduction behavior of Cr(VI) on oxidized carbon nanoparticles: From photocatalytic efficiency to oxygenated groups. **2023**, 311, 137136	0
35	Interaction between graphene oxide and acetaminophen in water under simulated sunlight: implications for environmental photochemistry of PPCPs. **2022**, 119364	0
34	Fabrication of Multilayered Biofunctional Material with an Enamel-like Structure. **2022**, 23, 13810	0
33	Display Based on Carbon-Enhanced Materials. **2023**, 209-242	0
32	Revisiting the two-dimensional structure and reduction process of graphene oxide with in-plane X-ray diffraction. **2023**, 202, 26-35	0
31	Facile preparation of covalently functionalized graphene with 2,4-dinitrophenylhydrazine and investigation of its characteristics. **2022**, 13, 558-569	0
30	Functional group inhomogeneity in graphene oxide using correlative absorption spectroscopy. **2023**, 613, 155885	0
29	Correlation between microstructure evolution and fluorescence properties of functionalized multi-walled carbon nanotubes. **2022**, 128,	0

28	Aggregation in carbon dots.	1
27	Insight into the Modulation of Carbon-Dot Optical Sensing Attributes through a Reduction Pathway. **2022**, 7, 43759-43769	0
26	Tuning of Photoluminescence of Graphene Oxide Based Nanomaterials in the UV-Visible Region: Formation of Aggregates by H-Bonding through Water Molecules. **2022**, 7,	0
25	Evaluation of Absorption and Photoluminescence in Graphene Oxide Obtained Through a Simple Route.	0
24	Optical Nonlinear Effects of Nickel and Cobalt substituents in 1D/2D Manganese Tungstate/rGO Nanocomposite for Smart Filtering Optical Radiation. **2023**, 114561	0
23	Graphene Oxide for Nonlinear Integrated Photonics. 2200512	3
22	Dual-Emission Carbon-Dot Ratiometric Fluorescence Sensor for Morphine Recognition in Biological Samples. **2023**, 13, 143	0
21	Graphene oxide for photonics, electronics and optoelectronics.	4
20	Copper-Nitrogen-Coordinated Carbon Dots: Transformable Phototheranostics from Precise PTT/PDT to Post-Treatment Imaging-Guided PDT for Residual Tumor Cells. **2023**, 15, 3253-3265	0
19	Photophysical Modulation of Rhodamine-B via □stacking with GQD and Its Further Tuning by Cucurbit[7]uril**. **2023**, 8,	0
18	Surface passivated p-phenylenediamine carbon quantum dots (p-CQDs) as fluorescent turn-on probes for the detection of Li+ and L-arginine by two different mechanisms. **2023**, 136, 113415	0
17	Electric and optoelectronic balances of silicon photodetectors coupled with colloid carbon nanodots. **2023**, 336, 133857	0
16	P□N Heterojunction System Eu-Doped ZnO@GO for Photocatalytic Water Splitting. 2200106	0
15	Chiral Graphene Quantum Dots Enhanced Drug Loading into Exosomes.	0
14	Modulating hydrothermal condition to achieve carbon dots-zeolite composites with multicolor afterglow.	0
13	Solid-Phase Pyrolysis Synthesis of Highly Fluorescent Nitrogen/Sulfur Codoped Graphene Quantum Dots for Selective and Sensitive Diversity Detection of Cr(VI). **2023**, 39, 1538-1547	0
12	Graphene quantum dots for clean energy solutions. **2023**, 183-209	0
11	Synthesis and Characterization of Carbon-Based Quantum Dot From Rice, Sugar, and Aloe-Vera. **2023**, 321-335	0

10	First-principles studies the optical properties of defective-GQDs and -fullerene. **2023**, 35, e00793	0
9	Construction of a solid-state fluorescent switching with carbon dots and diarylethene. **2023**, 216, 111318	0
8	Promotion of the structural repair of graphene oxide thin films by thermal annealing in water-ethanol vapor. **2023**, 139841	0
7	High Performance Carbon Material Prepared from Phalsa Using Mild Pyrolytic Process towards Photodegradation of Methylene Blue under the Irradiation of UV Light. **2023**, 13, 365	0
6	Room-Temperature acetone gas sensing properties of graphene oxide/zinc oxide nanocomposites synthesized by sol□gel method. **2023**, 34,	0
5	Multifunctional Carbon-Based Nanoparticles: Theranostic Applications in Cancer Therapy and Diagnosis. **2023**, 6, 1323-1338	0
4	Green and Sustainable Ultrasound-Assisted Anodic Electrochemical Preparation of Graphene Oxide Dispersions and Their Antioxidant Properties. **2023**, 28, 3238	0
3	Improving the catalytic properties of ceramics□CNT composites by carbon nanotubes (CNTs) surface modification. **2023**, 45-57	0
2	Magnetic and optical properties of Nd/TiO2- rGO nanocomposites. **2023**,	0
1	Sustainable route for synthesis of nitrogen-doped carbon dots with high efficiency for iron(III) and copper(II) ions detection. **2023**, 58, 7559-7570	0