Rabah Boukherroub

List of Publications by Year
in descending order

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670 papers	27,789 citations	6254 80 h-index	18647 119 g-index
711 all docs	711 docs citations	711 times ranked	29856 citing authors

#	Article	IF	Citations
1	New Synthetic Routes to Alkyl Monolayers on the Si(111) Surface1. Langmuir, 1999, 15, 3831-3835.	3.5	315
2	Surface plasmon resonance-based biosensors: From the development of different SPR structures to novel surface functionalization strategies. Current Opinion in Solid State and Materials Science, 2011, 15, 208-224.	11.5	295
3	Wettability Switching Techniques on Superhydrophobic Surfaces. Nanoscale Research Letters, 2007, 2, .	5.7	289
4	Preparation of Superhydrophobic Coatings on Zinc as Effective Corrosion Barriers. ACS Applied Materials & Interfaces, 2009, 1, 1150-1153.	8.0	285
5	Sensing using localised surface plasmon resonance sensors. Chemical Communications, 2012, 48, 8999.	4.1	266
6	Cu-Ag bimetallic nanoparticles on reduced graphene oxide nanosheets as peroxidase mimic for glucose and ascorbic acid detection. Sensors and Actuators B: Chemical, 2017, 238, 842-851.	7.8	259
7	Facile synthesis of fluorinated polydopamine/chitosan/reduced graphene oxide composite aerogel for efficient oil/water separation. Chemical Engineering Journal, 2017, 326, 17-28.	12.7	255
8	Antibacterial activity of graphene-based materials. Journal of Materials Chemistry B, 2016, 4, 6892-6912.	5.8	246
9	Polyurethane sponge functionalized with superhydrophobic nanodiamond particles for efficient oil/water separation. Chemical Engineering Journal, 2017, 307, 319-325.	12.7	237
10	Functional Carbon Quantum Dots as Medical Countermeasures to Human Coronavirus. ACS Applied Materials & Interfaces, 2019, 11, 42964-42974.	8.0	231
11	Reversible Electrowetting on Superhydrophobic Silicon Nanowires. Nano Letters, 2007, 7, 813-817.	9.1	225
12	Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. Journal of Materials Chemistry A, 2018, 6, 12876-12931.	10.3	215
13	Controlled Functionalization and Multistep Chemical Manipulation of Covalently Modified Si(111) Surfaces1. Journal of the American Chemical Society, 1999, 121, 11513-11515.	13.7	212
14	Insights into the Formation Mechanisms of Siâ^'OR Monolayers from the Thermal Reactions of Alcohols and Aldehydes with Si(111)â^'H1. Langmuir, 2000, 16, 7429-7434.	3.5	199
15	A green and sensitive guanine-based DNA biosensor for idarubicin anticancer monitoring in biological samples: A simple and fast strategy for control of health quality in chemotherapy procedure confirmed by docking investigation. Chemosphere, 2022, 291, 132928.	8.2	194
16	Recent advances in the development of graphene-based surface plasmon resonance (SPR) interfaces. Analytical and Bioanalytical Chemistry, 2013, 405, 1435-1443.	3.7	191
17	Carbon-based quantum particles: an electroanalytical and biomedical perspective. Chemical Society Reviews, 2019, 48, 4281-4316.	38.1	187
18	Reduction and Functionalization of Graphene Oxide Sheets Using Biomimetic Dopamine Derivatives in One Step. ACS Applied Materials & Interfaces, 2012, 4, 1016-1020.	8.0	182

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19	Different strategies for functionalization of diamond surfaces. Journal of Solid State Electrochemistry, 2008, 12, 1205-1218.	2.5	180
20	Electrochemical Methodologies for the Detection of Pathogens. ACS Sensors, 2018, 3, 1069-1086.	7.8	178
21	Thermal Hydrosilylation of Undecylenic Acid with Porous Silicon. Journal of the Electrochemical Society, 2002, 149, H59.	2.9	177
22	Well-Defined Carboxyl-Terminated Alkyl Monolayers Grafted onto Hâ˜Si(111):Â Packing Density from a Combined AFM and Quantitative IR Study. Langmuir, 2006, 22, 153-162.	3.5	172
23	Formation, Characterization, and Chemistry of Undecanoic Acid-Terminated Silicon Surfaces:Â Patterning and Immobilization of DNA. Langmuir, 2004, 20, 11713-11720.	3.5	171
24	Recent advances in surface chemistry strategies for the fabrication of functional iron oxide based magnetic nanoparticles. Nanoscale, 2013, 5, 10729.	5.6	164
25	Reduced graphene oxide decorated with Co3O4 nanoparticles (rGO-Co3O4) nanocomposite: A reusable catalyst for highly efficient reduction of 4-nitrophenol, and Cr(VI) and dye removal from aqueous solutions. Chemical Engineering Journal, 2017, 322, 375-384.	12.7	160
26	The preparation of flat Hâ€“Si(111) surfaces in 40% NH4F revisited. Electrochimica Acta, 2000, 45, 4591-4598.	5.2	157
27	Reduced graphene oxide nanosheets decorated with Au, Pd and Auâ€“Pd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. Journal of Materials Chemistry A, 2015, 3, 20254-20266.	10.3	146
28	Goldâ€“graphene nanocomposites for sensing and biomedical applications. Journal of Materials Chemistry B, 2015, 3, 4301-4324.	5.8	144
29	Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. Chemical Engineering Journal, 2020, 384, 123339.	12.7	144
30	Ideal Passivation of Luminescent Porous Silicon by Thermal, Noncatalytic Reaction with Alkenes and Aldehydesâ€. Chemistry of Materials, 2001, 13, 2002-2011.	6.7	139
31	The synthesis of citrate-modified silver nanoparticles in an aqueous suspension of graphene oxide nanosheets and their antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2013, 105, 128-136.	5.0	137
32	Green chemistry approach for the synthesis of ZnOâ€“carbon dots nanocomposites with good photocatalytic properties under visible light. Journal of Colloid and Interface Science, 2016, 465, 286-294.	9.4	137
33	Chemical reactivity of hydrogen-terminated crystalline silicon surfaces. Current Opinion in Solid State and Materials Science, 2005, 9, 66-72.	11.5	133
34	Silicon Nanowires Coated with Silver Nanostructures as Ultrasensitive Interfaces for Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2009, 1, 1396-1403.	8.0	133
35	Towards green synthesis of monodisperse Cu nanoparticles: An efficient and high sensitive electrochemical nitrite sensor. Sensors and Actuators B: Chemical, 2018, 266, 873-882.	7.8	133
36	PdCl2-Catalyzed Reduction of Organic Halides by Triethylsilane. Organometallics, 1996, 15, 1508-1510.	2.3	132

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37	Preparation of reduced graphene oxideâ€“Ni(OH)₂composites by electrophoretic deposition: application for non-enzymatic glucose sensing. Journal of Materials Chemistry A, 2014, 2, 5525-5533.	10.3	128
38	Microwave-Assisted Chemical Functionalization of Hydrogen-Terminated Porous Silicon Surfaces. Journal of Physical Chemistry B, 2003, 107, 13459-13462.	2.6	125
39	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. Biosensors and Bioelectronics, 2013, 50, 239-243.	10.1	125
40	Nickel Decorated on Phosphorous-Doped Carbon Nitride as an Efficient Photocatalyst for Reduction of Nitrobenzenes. Nanomaterials, 2016, 6, 59.	4.1	121
41	Matrix-Free Laser Desorption/Ionization Mass Spectrometry on Silicon Nanowire Arrays Prepared by Chemical Etching of Crystalline Silicon. Langmuir, 2010, 26, 1354-1361.	3.5	118
42	Eco-friendly synthesis of ZnO nanoparticles with different morphologies and their visible light photocatalytic performance for the degradation of Rhodamine B. Ceramics International, 2016, 42, 10259-10265.	4.8	116
43	Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors. Nanoscale, 2013, 5, 2692.	5.6	114
44	MoS2/reduced graphene oxide as active hybrid material for the electrochemical detection of folic acid in human serum. Biosensors and Bioelectronics, 2016, 85, 807-813.	10.1	113
45	High Efficiency of Functional Carbon Nanodots as Entry Inhibitors of Herpes Simplex Virus Type 1. ACS Applied Materials & Interfaces, 2016, 8, 9004-9013.	8.0	112
46	Preparation of Superhydrophobic Silicon Oxide Nanowire Surfaces. Langmuir, 2007, 23, 1608-1611.	3.5	111
47	Coreâ€“shell structured reduced graphene oxide wrapped magnetically separable rGO@CuZnO@Fe3O4 microspheres as superior photocatalyst for CO2 reduction under visible light. Applied Catalysis B: Environmental, 2017, 205, 654-665.	20.2	111
48	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers. ACS Omega, 2018, 3, 12010-12018.	3.5	111
49	Graphene-based biosensors. Interface Focus, 2018, 8, 20160132.	3.0	110
50	Culture of mammalian cells on patterned superhydrophilic/superhydrophobic silicon nanowire arrays. Soft Matter, 2011, 7, 8642.	2.7	109
51	Cellulose Nanocrystals/Graphene Hybridsâ€”A Promising New Class of Materials for Advanced Applications. Nanomaterials, 2020, 10, 1523.	4.1	109
52	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. Sensors and Actuators B: Chemical, 2018, 262, 180-187.	7.8	108
53	Highly Sensitive Detection of DNA Hybridization on Commercialized Graphene-Coated Surface Plasmon Resonance Interfaces. Analytical Chemistry, 2014, 86, 11211-11216.	6.5	106
54	Nanostructures for the Inhibition of Viral Infections. Molecules, 2015, 20, 14051-14081.	3.8	104

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55	Label-free femtomolar cancer biomarker detection in human serum using graphene-coated surface plasmon resonance chips. Biosensors and Bioelectronics, 2017, 89, 606-611.	10.1	104
56	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. ACS Catalysis, 2017, 7, 6700-6710.	11.2	104
57	Quantitative Testing of Robustness on Superomniphobic Surfaces by Drop Impact. Langmuir, 2010, 26, 18369-18373.	3.5	102
58	Glycan-functionalized diamond nanoparticles as potent E. coli anti-adhesives. Nanoscale, 2013, 5, 2307.	5.6	102
59	Inorganic Molybdenum Octahedral Nanosized Cluster Units, Versatile Functional Building Block for Nanoarchitectonics. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 189-204.	3.7	102
60	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. Advances in Colloid and Interface Science, 2019, 271, 101991.	14.7	102
61	Preparation of boron-doped diamond nanowires and their application for sensitive electrochemical detection of tryptophan. Electrochemistry Communications, 2010, 12, 438-441.	4.7	101
62	Preparation of reduced graphene oxide/Cu nanoparticle composites through electrophoretic deposition: application for nonenzymatic glucose sensing. RSC Advances, 2015, 5, 15861-15869.	3.6	100
63	Structural and optical properties of Na doped ZnO nanocrystals: Application to solar photocatalysis. Applied Surface Science, 2017, 396, 1528-1538.	6.1	99
64	Cellular and in vivo toxicity of functionalized nanodiamond in Xenopus embryos. Journal of Materials Chemistry, 2010, 20, 8064.	6.7	98
65	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects. Colloids and Surfaces B: Biointerfaces, 2018, 170, 347-354.	5.0	98
66	Direct Functionalization of Nanodiamond Particles Using Dopamine Derivatives. Langmuir, 2011, 27, 12451-12457.	3.5	94
67	Magnetic polyurethane sponge for efficient oil adsorption and separation of oil from oil-in-water emulsions. Separation and Purification Technology, 2020, 240, 116627.	7.9	93
68	How the Intricate Interactions between Carbon Nanotubes and Two Bilirubin Oxidases Control Direct and Mediated O₂ Reduction. ACS Applied Materials & Interfaces, 2016, 8, 23074-23085.	8.0	91
69	Stabilization of porous silicon electroluminescence by surface passivation with controlled covalent bonds. Applied Physics Letters, 2003, 83, 2342-2344.	3.3	89
70	PMS activation using reduced graphene oxide under sonication: Efficient metal-free catalytic system for the degradation of rhodamine B, bisphenol A, and tetracycline. Ultrasonics Sonochemistry, 2019, 52, 164-175.	8.2	89
71	NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors. Electrochimica Acta, 2019, 302, 1-9.	5.2	89
72	Thermal Route for Chemical Modification and Photoluminescence Stabilization of Porous Silicon. Physica Status Solidi A, 2000, 182, 117-121.	1.7	88

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73	Plasmonic photothermal destruction of uropathogenic E. coli with reduced graphene oxide and core/shell nanocomposites of gold nanorods/reduced graphene oxide. Journal of Materials Chemistry B, 2015, 3, 375-386.	5.8	88
74	Facile synthesis and characterization of a novel 1,2,4,5-benzene tetracarboxylic acid doped polyaniline@zinc phosphate nanocomposite for highly efficient removal of hazardous hexavalent chromium ions from water. Journal of Colloid and Interface Science, 2021, 585, 560-573.	9.4	87
75	Photochemical oxidation of hydrogenated boron-doped diamond surfaces. Electrochemistry Communications, 2005, 7, 937-940.	4.7	86
76	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli. Sensors and Actuators B: Chemical, 2018, 260, 255-263.	7.8	86
77	The antimicrobial effect of silicon nanowires decorated with silver and copper nanoparticles. Nanotechnology, 2013, 24, 495101.	2.6	85
78	Gold island films on indium tin oxide for localized surface plasmon sensing. Nanotechnology, 2008, 19, 195712.	2.6	84
79	Synthesis and characterization of arginine-doped polyaniline/walnut shell hybrid composite with superior clean-up ability for chromium (VI) from aqueous media: Equilibrium, reusability and process optimization. Journal of Molecular Liquids, 2020, 316, 113832.	4.9	84
80	Engineering Sticky Superomniphobic Surfaces on Transparent and Flexible PDMS Substrate. Langmuir, 2010, 26, 17242-17247.	3.5	83
81	Surface plasmon resonance: signal amplification using colloidal gold nanoparticles for enhanced sensitivity. Reviews in Analytical Chemistry, 2014, 33, .	3.2	83
82	Extreme Resistance of Superhydrophobic Surfaces to Impalement: Reversible Electrowetting Related to the Impacting/Bouncing Drop Test. Langmuir, 2008, 24, 11203-11208.	3.5	82
83	Nucleic aptamer modified porous reduced graphene oxide/MoS2 based electrodes for viral detection: Application to human papillomavirus (HPV). Sensors and Actuators B: Chemical, 2018, 262, 991-1000.	7.8	82
84	Functionalization of Azide-Terminated Silicon Surfaces with Glycans Using Click Chemistry: XPS and FTIR Study. Journal of Physical Chemistry C, 2013, 117, 368-375.	3.1	81
85	EWOD driven cleaning of bioparticles on hydrophobic and superhydrophobic surfaces. Lab on A Chip, 2011, 11, 490-496.	6.0	80
86	Solvothermal synthesis of CoS/reduced porous graphene oxide nanocomposite for selective colorimetric detection of Hg(II) ion in aqueous medium. Sensors and Actuators B: Chemical, 2017, 244, 684-692.	7.8	80
87	Magnetically driven superhydrophobic/superoleophilic graphene-based polyurethane sponge for highly efficient oil/water separation and demulsification. Separation and Purification Technology, 2021, 274, 118931.	7.9	80
88	Comparison of the chemical composition of boron-doped diamond surfaces upon different oxidation processes. Electrochimica Acta, 2009, 54, 5818-5824.	5.2	79
89	Heat: A Highly Efficient Skin Enhancer for Transdermal Drug Delivery. Frontiers in Bioengineering and Biotechnology, 2018, 6, 15.	4.1	79
90	Preparation of Superhydrophobic Coatings on Zinc, Silicon, and Steel by a Solution-Immersion Technique. ACS Applied Materials & Interfaces, 2009, 1, 2086-2091.	8.0	78

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91	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. Applied Catalysis B: Environmental, 2013, 130-131, 270-276.	20.2	78
92	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium. Chemosphere, 2020, 258, 127316.	8.2	77
93	Surface Plasmon Resonance Investigation of Silver and Gold Films Coated with Thin Indium Tin Oxide Layers: Influence on Stability and Sensitivity. Journal of Physical Chemistry C, 2008, 112, 15813-15817.	3.1	76
94	Diamond nanowires for highly sensitive matrix-free mass spectrometry analysis of small molecules. Nanoscale, 2012, 4, 231-238.	5.6	75
95	Fast photocatalytic degradation of rhodamine B over [Mo6Br8(N3)6]2â^' cluster units under sun light irradiation. Applied Catalysis B: Environmental, 2012, 123-124, 1-8.	20.2	75
96	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An â€œOn-Demandâ€•Photothermally Triggered Antibiotic Release Platform. ACS Applied Materials & Interfaces, 2018, 10, 41098-41106.	8.0	75
97	High sensitive matrix-free mass spectrometry analysis of peptides using silicon nanowires-based digital microfluidic device. Lab on A Chip, 2011, 11, 1620.	6.0	74
98	Zipping Effect on Omniphobic Surfaces for Controlled Deposition of Minute Amounts of Fluid or Colloids. Small, 2012, 8, 1229-1236.	10.0	74
99	Stability Enhancement of Partially-Oxidized Porous Silicon Nanostructures Modified with Ethyl Undecylenate. Nano Letters, 2001, 1, 713-717.	9.1	73
100	Sulfonated reduced graphene oxide as a highly efficient catalyst for direct amidation of carboxylic acids with amines using ultrasonic irradiation. Ultrasonics Sonochemistry, 2016, 29, 371-379.	8.2	73
101	Tip-Enhanced Raman Spectroscopy of Combed Double-Stranded DNA Bundles. Journal of Physical Chemistry C, 2014, 118, 1174-1181.	3.1	72
102	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. Journal of Colloid and Interface Science, 2017, 507, 360-369.	9.4	72
103	Cobalt phthalocyanine-supported reduced graphene oxide: A highly efficient catalyst for heterogeneous activation of peroxymonosulfate for rhodamine B and pentachlorophenol degradation. Chemical Engineering Journal, 2018, 336, 465-475.	12.7	72
104	CoO Promoted the Catalytic Activity of Nitrogen-Doped MoS₂ Supported on Carbon Fibers for Overall Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 31889-31898.	8.0	72
105	Fabrication of ZnCoS nanomaterial for high energy flexible asymmetric supercapacitors. Chemical Engineering Journal, 2019, 374, 347-358.	12.7	72
106	Functionalization of Diamond Nanoparticles Using â€œClickâ€•Chemistry. Langmuir, 2010, 26, 13168-13172.	3.5	71
107	Synthesis and photocatalytic activity of iodine-doped ZnO nanoflowers. Journal of Materials Chemistry, 2011, 21, 10982.	6.7	71
108	Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation. Nanoscale, 2011, 3, 4662.	5.6	71

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109	Phenylboronic-Acid-Modified Nanoparticles: Potential Antiviral Therapeutics. ACS Applied Materials & Interfaces, 2013, 5, 12488-12498.	8.0	71
110	Cobalt phthalocyanine tetracarboxylic acid modified reduced graphene oxide: a sensitive matrix for the electrocatalytic detection of peroxynitrite and hydrogen peroxide. RSC Advances, 2015, 5, 1474-1484.	3.6	70
111	Plasmonic photothermal cancer therapy with gold nanorods/reduced graphene oxide core/shell nanocomposites. RSC Advances, 2016, 6, 1600-1610.	3.6	70
112	Photothermally triggered on-demand insulin release from reduced graphene oxide modified hydrogels. Journal of Controlled Release, 2017, 246, 164-173.	9.9	70
113	Magnetic Fe3O4@V2O5/rGO nanocomposite as a recyclable photocatalyst for dye molecules degradation under direct sunlight irradiation. Chemosphere, 2018, 191, 503-513.	8.2	70
114	Highly improved photoreduction of carbon dioxide to methanol using cobalt phthalocyanine grafted to graphitic carbon nitride as photocatalyst under visible light irradiation. Journal of Colloid and Interface Science, 2019, 543, 201-213.	9.4	70
115	Biomolecule and Nanoparticle Transfer on Patterned and Heterogeneously Wetted Superhydrophobic Silicon Nanowire Surfaces. Langmuir, 2008, 24, 1670-1672.	3.5	69
116	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. Carbon, 2014, 68, 175-184.	10.3	69
117	Hexamolybdenum clusters supported on graphene oxide: Visible-light induced photocatalytic reduction of carbon dioxide into methanol. Carbon, 2015, 94, 91-100.	10.3	69
118	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. Applied Materials Today, 2017, 8, 141-149.	4.3	69
119	Preparation and Characterization of Thin Films of SiOxon Gold Substrates for Surface Plasmon Resonance Studies. Langmuir, 2006, 22, 1660-1663.	3.5	68
120	Simultaneous electrochemical detection of tryptophan and tyrosine using boron-doped diamond and diamond nanowire electrodes. Electrochemistry Communications, 2013, 35, 84-87.	4.7	67
121	Preparation of silver nanoparticles/polydopamine functionalized polyacrylonitrile fiber paper and its catalytic activity for the reduction 4-nitrophenol. Applied Surface Science, 2017, 411, 163-169.	6.1	67
122	Facile synthesis of carbon-ZnO nanocomposite with enhanced visible light photocatalytic performance. Applied Surface Science, 2017, 400, 461-470.	6.1	67
123	Label-Free Detection of Lectins on Carbohydrate-Modified Boron-Doped Diamond Surfaces. Analytical Chemistry, 2010, 82, 8203-8210.	6.5	66
124	Cumulative effect of zinc oxide and titanium oxide nanoparticles on growth and chlorophyll a content of Picochlorum sp.. Environmental Science and Pollution Research, 2016, 23, 2821-2830.	5.3	66
125	Modification of Porous Silicon Surfaces with Activated Ester Monolayers. Langmuir, 2002, 18, 6081-6087.	3.5	65
126	Contact angle hysteresis origins: Investigation on super-omniphobic surfaces. Soft Matter, 2011, 7, 9380.	2.7	65

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127	Photocatalytic activity of silicon nanowires under UV and visible light irradiation. Chemical Communications, 2011, 47, 991-993.	4.1	65
128	Graphene-Coated Surface Plasmon Resonance Interfaces for Studying the Interactions between Bacteria and Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 5422-5431.	8.0	65
129	Hydrothermal synthesis, phase structure, optical and photocatalytic properties of Zn2SnO4 nanoparticles. Journal of Colloid and Interface Science, 2015, 457, 360-369.	9.4	65
130	Efficient detoxification of Cr(VI)-containing effluents by sequential adsorption and reduction using a novel cysteine-doped PANi@faujasite composite: Experimental study supported by advanced statistical physics prediction. Journal of Hazardous Materials, 2022, 422, 126857.	12.4	65
131	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. Biosensors and Bioelectronics, 2013, 50, 331-337.	10.1	64
132	Efficient oil/water separation by superhydrophobic CuxS coated on copper mesh. Separation and Purification Technology, 2019, 215, 573-581.	7.9	64
133	A facile preparation of CuS-BSA nanocomposite as enzyme mimics: Application for selective and sensitive sensing of Cr(VI) ions. Sensors and Actuators B: Chemical, 2019, 294, 253-262.	7.8	64
134	â€œReagentlessâ€•Micropatterning of Organics on Silicon Surfaces:Â Control of Hydrophobic/Hydrophilic Domains1. Journal of the American Chemical Society, 2001, 123, 1535-1536.	13.7	63
135	Transdermal skin patch based on reduced graphene oxide: A new approach for photothermal triggered permeation of ondansetron across porcine skin. Journal of Controlled Release, 2017, 245, 137-146.	9.9	63
136	Functionalization of Reduced Graphene Oxide via Thiolâ€“Maleimide â€œClickâ€•Chemistry: Facile Fabrication of Targeted Drug Delivery Vehicles. ACS Applied Materials & Interfaces, 2017, 9, 34194-34203.	8.0	63
137	CuS Decorated Functionalized Reduced Graphene Oxide: A Dual Responsive Nanozyme for Selective Detection and Photoreduction of Cr(VI) in an Aqueous Medium. ACS Sustainable Chemistry and Engineering, 2019, 7, 16131-16143.	6.7	63
138	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures. Journal of Materials Chemistry B, 2017, 5, 8653-8675.	5.8	62
139	Reduced graphene oxideâ€“based field effect transistors for the detection of E7 protein of human papillomavirus in saliva. Analytical and Bioanalytical Chemistry, 2021, 413, 779-787.	3.7	62
140	Photoluminescence stabilization of anodically-oxidized porous silicon layers by chemical functionalization. Applied Physics Letters, 2002, 81, 601-603.	3.3	61
141	Non-enzymatic glucose sensing on long and short diamond nanowire electrodes. Electrochemistry Communications, 2013, 34, 286-290.	4.7	60
142	Localized surface plasmon-enhanced fluorescence spectroscopy for highly-sensitive real-time detection of DNA hybridization. Biosensors and Bioelectronics, 2010, 25, 2579-2585.	10.1	59
143	Preparation of graphene/tetrathiafulvalene nanocomposite switchable surfaces. Chemical Communications, 2012, 48, 1221-1223.	4.1	59
144	Antibacterial Applications of Nanodiamonds. International Journal of Environmental Research and Public Health, 2016, 13, 413.	2.6	59

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145	Influence of the surface termination on the electrochemical properties of boron-doped diamond (BDD) interfaces. Electrochemistry Communications, 2008, 10, 402-406.	4.7	58
146	Graphite oxide: an efficient reagent for oxidation of alcohols under sonication. Tetrahedron Letters, 2012, 53, 4962-4965.	1.4	58
147	Surface Plasmon Resonance based sensing of lysozyme in serum on Micrococcus lysodeikticus-modified graphene oxide surfaces. Biosensors and Bioelectronics, 2017, 89, 525-531.	10.1	58
148	Direct amination of hydrogen-terminated boron doped diamond surfaces. Electrochemistry Communications, 2006, 8, 1185-1190.	4.7	57
149	Comparison of different oxidation techniques on single-crystal and nanocrystalline diamond surfaces. Diamond and Related Materials, 2010, 19, 474-478.	3.9	57
150	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. ACS Sensors, 2016, 1, 1462-1470.	7.8	57
151	Toxicity effect of graphene oxide on growth and photosynthetic pigment of the marine alga Picochlorum sp. during different growth stages. Environmental Science and Pollution Research, 2017, 24, 4144-4152.	5.3	57
152	Phytic acid-doped polyaniline nanofibers-clay mineral for efficient adsorption of copper (II) ions. Journal of Colloid and Interface Science, 2019, 553, 688-698.	9.4	57
153	Au-assisted electroless etching of silicon in aqueous HF/H2O2 solution. Applied Surface Science, 2009, 255, 6210-6216.	6.1	56
154	Approach for Plasmonic Based DNA Sensing: Amplification of the Wavelength Shift and Simultaneous Detection of the Plasmon Modes of Gold Nanostructures. Analytical Chemistry, 2013, 85, 3288-3296.	6.5	56
155	Visible Light Assisted Photocatalytic [3 + 2] Azideâ€“Alkyne â€œClickâ€•Reaction for the Synthesis of 1,4-Substituted 1,2,3-Triazoles Using a Novel Bimetallic Ruâ€“Mn Complex. ACS Sustainable Chemistry and Engineering, 2016, 4, 69-75.	6.7	56
156	Short- and Long-Range Sensing on Gold Nanostructures, Deposited on Glass, Coated with Silicon Oxide Films of Different Thicknesses. Journal of Physical Chemistry C, 2008, 112, 8239-8243.	3.1	55
157	Reversible Electrowetting on Superhydrophobic Double-Nanotextured Surfaces. Langmuir, 2009, 25, 6551-6558.	3.5	55
158	Thiol-yne Reaction on Boron-Doped Diamond Electrodes: Application for the Electrochemical Detection of DNAâ€“DNA Hybridization Events. Analytical Chemistry, 2012, 84, 194-200.	6.5	55
159	A novel Ru/TiO₂hybrid nanocomposite catalyzed photoreduction of CO₂to methanol under visible light. Nanoscale, 2015, 7, 15258-15267.	5.6	55
160	Oxidative Burst-Dependent NETosis Is Implicated in the Resolution of Necrosis-Associated Sterile Inflammation. Frontiers in Immunology, 2016, 7, 557.	4.8	55
161	Facile preparation of high density polyethylene superhydrophobic/superoleophilic coatings on glass, copper and polyurethane sponge for self-cleaning, corrosion resistance and efficient oil/water separation. Journal of Colloid and Interface Science, 2018, 525, 76-85.	9.4	55
162	Electrochemical cardiovascular platforms: Current state of the art and beyond. Biosensors and Bioelectronics, 2019, 131, 287-298.	10.1	55

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