

# Quan-Guo He

## List of Publications by Year in descending order

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67  
papers

4,034  
citations

87843

38  
h-index

118793

62  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Improvements for Penetrating the Bloodâ€“Brain Barrierâ€“Recent Progress from a Material and Pharmaceutical Perspective. <i>Cells</i> , 2018, 7, 24.	1.8	207
2	A promising sensing platform toward dopamine using MnO <sub>2</sub> nanowires/electro-reduced graphene oxide composites. <i>Electrochimica Acta</i> , 2019, 296, 683-692.	2.6	201
3	Reviewâ€“Recent Developments on Graphene-Based Electrochemical Sensors toward Nitrite. <i>Journal of the Electrochemical Society</i> , 2019, 166, B881-B895.	1.3	161
4	Recent advances in black phosphorus-based electrochemical sensors: A review. <i>Analytica Chimica Acta</i> , 2021, 1170, 338480.	2.6	154
5	Rapid recognition and determination of tryptophan by carbon nanotubes and molecularly imprinted polymer-modified glassy carbon electrode. <i>Bioelectrochemistry</i> , 2020, 131, 107393.	2.4	151
6	Simultaneous and sensitive determination of ascorbic acid, dopamine and uric acid via an electrochemical sensor based on PVP-graphene composite. <i>Journal of Nanobiotechnology</i> , 2020, 18, 112.	4.2	136
7	Fabrication of Amine-Modified Magnetite-Electrochemically Reduced Graphene Oxide Nanocomposite Modified Glassy Carbon Electrode for Sensitive Dopamine Determination. <i>Nanomaterials</i> , 2018, 8, 194.	1.9	125
8	Recent progress on photocatalytic heterostructures with full solar spectral responses. <i>Chemical Engineering Journal</i> , 2020, 393, 124719.	6.6	123
9	Manganese dioxide Nanorods/electrochemically reduced graphene oxide nanocomposites modified electrodes for cost-effective and ultrasensitive detection of Amaranth. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 565-572.	2.5	119
10	Facile and Ultrasensitive Determination of 4-Nitrophenol Based on Acetylene Black Paste and Graphene Hybrid Electrode. <i>Nanomaterials</i> , 2019, 9, 429.	1.9	115
11	Facile Electrochemical Sensor for Nanomolar Rutin Detection Based on Magnetite Nanoparticles and Reduced Graphene Oxide Decorated Electrode. <i>Nanomaterials</i> , 2019, 9, 115.	1.9	104
12	Preparation of Cu <sub>2</sub> O-Reduced Graphene Nanocomposite Modified Electrodes towards Ultrasensitive Dopamine Detection. <i>Sensors</i> , 2018, 18, 199.	2.1	102
13	Review of semi-dry electrodes for EEG recording. <i>Journal of Neural Engineering</i> , 2020, 17, 051004.	1.8	95
14	Morphologyâ€“Dependent Electrochemical Sensing Properties of Iron Oxideâ€“Graphene Oxide Nanohybrids for Dopamine and Uric Acid. <i>Nanomaterials</i> , 2019, 9, 835.	1.9	93
15	Electrochemical Sensor for Rapid and Sensitive Detection of Tryptophan by a Cu <sub>2</sub> O Nanoparticles-Coated Reduced Graphene Oxide Nanocomposite. <i>Biomolecules</i> , 2019, 9, 176.	1.8	92
16	Ultrasensitive detection of dopamine via electrochemical route on spindle-like $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Mesocrystals/rGO modified GCE. <i>Materials Research Bulletin</i> , 2021, 133, 111050.	2.7	90
17	Facile synthesis of dendritic-like CeO <sub>2</sub> /rGO composite and application for detection of uric acid and tryptophan simultaneously. <i>Journal of Solid State Chemistry</i> , 2021, 296, 122023.	1.4	88
18	Facile Synthesis of MnO <sub>2</sub> Nanoflowers/N-Doped Reduced Graphene Oxide Composite and Its Application for Simultaneous Determination of Dopamine and Uric Acid. <i>Nanomaterials</i> , 2019, 9, 847.	1.9	86

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19	Graphene and graphene like 2D graphitic carbon nitride: Electrochemical detection of food colorants and toxic substances in environment. Trends in Environmental Analytical Chemistry, 2019, 23, e00064.	5.3	86
20	High sensitive voltammetric sensor for nanomolarity vanillin detection in food samples via manganese dioxide nanowires hybridized electrode. Microchemical Journal, 2020, 157, 104885.	2.3	81
21	Sensitive and Selective Detection of Tartrazine Based on TiO <sub>2</sub> -Electrochemically Reduced Graphene Oxide Composite-Modified Electrodes. Sensors, 2018, 18, 1911.	2.1	71
22	Efficiently Enhancing Electrocatalytic Activity of $\text{Fe-MnO}_2$ Nanorods/N-Doped Ketjenblack Carbon for Oxygen Reduction Reaction and Oxygen Evolution Reaction Using Facile Regulated Hydrothermal Treatment. Catalysts, 2018, 8, 138.	1.6	69
23	A Highly Sensitive and Stable Dopamine Sensor Using Shuttle-Like $\text{Fe}_2\text{O}_3$ Nanoparticles/Electro-Reduced Graphene Oxide Composites. Journal of the Electrochemical Society, 2019, 166, B1552-B1561.	1.3	69
24	Nanohybrids of shuttle-like $\text{Fe}_2\text{O}_3$ nanoparticles and nitrogen-doped graphene for simultaneous voltammetric detection of dopamine and uric acid. New Journal of Chemistry, 2020, 44, 20797-20805.	1.4	65
25	Construction of effective electrochemical sensor for the determination of quinoline yellow based on different morphologies of manganese dioxide functionalized graphene. Journal of Food Composition and Analysis, 2019, 84, 103280.	1.9	62
26	$\text{MnO}_2$ Nanowires-Decorated Reduced Graphene Oxide Modified Glassy Carbon Electrode for Sensitive Determination of Bisphenol A. Journal of the Electrochemical Society, 2020, 167, 046514.	1.3	60
27	Ta <sub>2</sub> O <sub>5</sub> /rGO Nanocomposite Modified Electrodes for Detection of Tryptophan through Electrochemical Route. Nanomaterials, 2019, 9, 811.	1.9	58
28	Electrochemical Sensing Fabricated with Ta <sub>2</sub> O <sub>5</sub> Nanoparticle-Electrochemically Reduced Graphene Oxide Nanocomposite for the Detection of Oxytetracycline. Biomolecules, 2020, 10, 110.	1.8	58
29	Spherical $\text{Fe-MnO}_2$ Supported on N-KB as Efficient Electrocatalyst for Oxygen Reduction in Al-Air Battery. Materials, 2018, 11, 601.	1.3	56
30	Facile Preparation of Fe <sub>3</sub> O <sub>4</sub> /C Nanocomposite and Its Application for Cost-Effective and Sensitive Detection of Tryptophan. Biomolecules, 2019, 9, 245.	1.8	56
31	A Novel Modified Electrode for Detection of the Food Colorant Sunset Yellow Based on Nanohybrid of MnO <sub>2</sub> Nanorods-Decorated Electrochemically Reduced Graphene Oxide. Molecules, 2019, 24, 1178.	1.7	54
32	New voltammetric method for determination of tyrosine in foodstuffs using an oxygen-functionalized multi-walled carbon nanotubes modified acetylene black paste electrode. Journal of Food Composition and Analysis, 2021, 96, 103708.	1.9	53
33	A Simple and Efficient Molecularly Imprinted Electrochemical Sensor for the Selective Determination of Tryptophan. Biomolecules, 2019, 9, 294.	1.8	52
34	Rapid and Sensitive Voltammetric Detection of Rhodamine B in Chili-Containing Foodstuffs Using $\text{MnO}_2$ Nanorods/Electro-Reduced Graphene Oxide Composite. Journal of the Electrochemical Society, 2019, 166, B805-B813.	1.3	51
35	Novel Electrochemical Sensors Based on Cuprous Oxide-Electrochemically Reduced Graphene Oxide Nanocomposites Modified Electrode toward Sensitive Detection of Sunset Yellow. Molecules, 2018, 23, 2130.	1.7	47
36	Titania/Electro-Reduced Graphene Oxide Nanohybrid as an Efficient Electrochemical Sensor for the Determination of Allura Red. Nanomaterials, 2020, 10, 307.	1.9	46

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37	Sensitive Voltammetric Sensor for Tryptophan Detection by Using Polyvinylpyrrolidone Functionalized Graphene/GCE. <i>Nanomaterials</i> , 2020, 10, 125.	1.9	41
38	Microstructure and properties of monolayer, bilayer and multilayer Ta <sub>2</sub> O <sub>5</sub> -based coatings on biomedical Ti-6Al-4V alloy by magnetron sputtering. <i>Ceramics International</i> , 2021, 47, 1133-1144.	2.3	41
39	Highly Sensitive Voltammetric Sensor for Nanomolar Dopamine Detection Based on Facile Electrochemical Reduction of Graphene Oxide and Ceria Nanocomposite. <i>Journal of the Electrochemical Society</i> , 2020, 167, 146511.	1.3	41
40	Rapid and Sensitive Determination of Vanillin Based on a Glassy Carbon Electrode Modified with Cu <sub>2</sub> O-Electrochemically Reduced Graphene Oxide Nanocomposite Film. <i>Sensors</i> , 2018, 18, 2762.	2.1	37
41	Morphologically Tunable MnO <sub>2</sub> Nanoparticles Fabrication, Modelling and Their Influences on Electrochemical Sensing Performance toward Dopamine. <i>Catalysts</i> , 2018, 8, 323.	1.6	36
42	Electropolymerization of molecularly imprinted polypyrrole film on multiwalled carbon nanotube surface for highly selective and stable determination of carcinogenic amaranth. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115494.	1.9	36
43	Sodium Acetate Orientated Hollow/Mesoporous Magnetite Nanoparticles: Facile Synthesis, Characterization and Formation Mechanism. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 292.	1.3	31
44	A cost-saving preparation of nickel nanoparticles/nitrogen-carbon nanohybrid as effective advanced electrode materials for highly sensitive tryptophan sensor. <i>Microchemical Journal</i> , 2021, 160, 105744.	2.3	29
45	Highly sensitive electrochemical sensor for tyrosine detection using a sub-millimeter electrode. <i>Microchemical Journal</i> , 2021, 165, 106106.	2.3	29
46	Chemically Surface Tunable Solubility Parameter for Controllable Drug Delivery—An Example and Perspective from Hollow PAA-Coated Magnetite Nanoparticles with R6G Model Drug. <i>Materials</i> , 2018, 11, 247.	1.3	28
47	Fabrication and Performance of ZnO Doped Tantalum Oxide Multilayer Composite Coatings on Ti6Al4V for Orthopedic Application. <i>Nanomaterials</i> , 2019, 9, 685.	1.9	26
48	A Simple but Efficient Voltammetric Sensor for Simultaneous Detection of Tartrazine and Ponceau 4R Based on TiO <sub>2</sub> /Electro-Reduced Graphene Oxide Nanocomposite. <i>Chemosensors</i> , 2020, 8, 70.	1.8	24
49	Fast and ultrasensitive trace malachite green detection in aquaculture and fisheries by using hexadecylpyridinium bromide modified electrochemical sensor. <i>Journal of Food Composition and Analysis</i> , 2021, 102, 104003.	1.9	24
50	Ultrasensitive electrochemical determination of tyrosine based on the Fe <sub>3</sub> O <sub>4</sub> @Co <sub>3</sub> O <sub>4</sub> -NRGO modified electrode. <i>Microchemical Journal</i> , 2021, 171, 106867.	2.3	24
51	Determination of Uric Acid in Co-Presence of Dopamine and Ascorbic Acid Using Cuprous Oxide Nanoparticle-Functionalized Graphene Decorated Glassy Carbon Electrode. <i>Catalysts</i> , 2018, 8, 407.	1.6	23
52	Facile Preparation of Cu <sub>2</sub> O Nanoparticles and Reduced Graphene Oxide Nanocomposite for Electrochemical Sensing of Rhodamine B. <i>Nanomaterials</i> , 2019, 9, 958.	1.9	23
53	Catalytic Application and Mechanism Studies of Argentic Chloride Coupled Ag/Au Hollow Heterostructures: Considering the Interface Between Ag/Au Bimetals. <i>Nanoscale Research Letters</i> , 2019, 14, 35.	3.1	23
54	Application of a Simple and Sensitive Electrochemical Sensor in Simultaneous Determination of Paracetamol and Ascorbic Acid. <i>Journal of the Electrochemical Society</i> , 2021, 168, 096501.	1.3	22

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55	Improving the adhesive, mechanical, tribological properties and corrosion resistance of reactive sputtered tantalum oxide coating on Ti6Al4V alloy via introducing multiple interlayers. <i>Ceramics International</i> , 2022, 48, 5983-5994.	2.3	21
56	Critical Review of Synthesis, Toxicology and Detection of Acyclovir. <i>Molecules</i> , 2021, 26, 6566.	1.7	18
57	Microstructure, Wettability, Corrosion Resistance and Antibacterial Property of Cu-MTa2O5 Multilayer Composite Coatings with Different Cu Incorporation Contents. <i>Biomolecules</i> , 2020, 10, 68.	1.8	17
58	Neoteric hollow tubular MnS/Co3S4 hybrids as high-performance electrode materials for supercapacitors. <i>Electrochimica Acta</i> , 2021, 390, 138893.	2.6	15
59	The Preparation and Properties of Multilayer Cu-MTa2O5 Composite Coatings on Ti6Al4V for Biomedical Applications. <i>Nanomaterials</i> , 2019, 9, 1498.	1.9	14
60	Pharmaceutical Application of Magnetic Iron Oxide Nanoparticles. <i>Science of Advanced Materials</i> , 2015, 7, 672-685.	0.1	12
61	Ag-based photocatalytic heterostructures: Construction and photocatalytic energy conversion application. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107374.	3.3	12
62	Determination of Uric Acid in Biological Fluids by Ceria Nanoparticles Doped Reduced Graphene Oxide Nanocomposite Voltammetric Sensor. <i>Journal of the Electrochemical Society</i> , 2021, 168, 126529.	1.3	12
63	Salicylaldehyde functionalized chitosan for electrochemical sensitive sensor: Simultaneous determination of catechol and hydroquinone. <i>Journal of Electroanalytical Chemistry</i> , 2022, 918, 116506.	1.9	12
64	Polyethylenimine-carbon nanotubes composite as an electrochemical sensing platform for sensitive and selective detection of toxic rhodamine B in soft drinks and chilli-containing products. <i>Journal of Food Composition and Analysis</i> , 2022, 107, 104386.	1.9	8
65	A Nanoscale System for Remarkably Enhanced Drug Delivery Based on Hollow Magnetic Particles Encapsulated Within Temperature-Responsive Poly(methylmethacrylate). <i>Science of Advanced Materials</i> , 2014, 6, 387-398.	0.1	7
66	Synthesis and Characterization of a Silver Incorporated Magnetic Nanocomposite with Enhanced Antibacterial Activity. <i>Science of Advanced Materials</i> , 2014, 6, 366-376.	0.1	6
67	Ultrasensitive electrochemical detection for nanomolarity Acyclovir at ferrous molybdate nanorods and graphene oxide composited glassy carbon electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128601.	2.3	6