

# 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	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
2	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
3	Ag-based photocatalytic heterostructures: Construction and photocatalytic energy conversion application. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107374.	3.3	12
4	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
5	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
6	New voltammetric method for determination of tyrosine in foodstuffs using an oxygen-functionalized multi-walled carbon nanotubes modified acetylene black paste electrode. <i>Journal of Food Composition and Analysis</i> , 2021, 96, 103708.	1.9	53
7	Ultrasensitive detection of dopamine via electrochemical route on spindle-like $\text{Fe}_2\text{O}_3$ Mesocrystals/rGO modified GCE. <i>Materials Research Bulletin</i> , 2021, 133, 111050.	2.7	90
8	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
9	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
10	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
11	Highly sensitive electrochemical sensor for tyrosine detection using a sub-millimeter electrode. <i>Microchemical Journal</i> , 2021, 165, 106106.	2.3	29
12	Recent advances in black phosphorus-based electrochemical sensors: A review. <i>Analytica Chimica Acta</i> , 2021, 1170, 338480.	2.6	154
13	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
14	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
15	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
16	Neoteric hollow tubular MnS/Co <sub>3</sub> S <sub>4</sub> hybrids as high-performance electrode materials for supercapacitors. <i>Electrochimica Acta</i> , 2021, 390, 138893.	2.6	15
17	Ultrasensitive electrochemical determination of tyrosine based on the $\text{Fe}_2\text{O}_3$ @Co <sub>3</sub> O <sub>4</sub> -NRGO modified electrode. <i>Microchemical Journal</i> , 2021, 171, 106867.	2.3	24
18	Critical Review of Synthesis, Toxicology and Detection of Acyclovir. <i>Molecules</i> , 2021, 26, 6566.	1.7	18

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19	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
20	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
21	Nanohybrids of shuttle-like $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles and nitrogen-doped graphene for simultaneous voltammetric detection of dopamine and uric acid. <i>New Journal of Chemistry</i> , 2020, 44, 20797-20805.	1.4	65
22	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
23	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
24	High sensitive voltammetric sensor for nanomolarity vanillin detection in food samples via manganese dioxide nanowires hybridized electrode. <i>Microchemical Journal</i> , 2020, 157, 104885.	2.3	81
25	MnO <sub>2</sub> Nanowires-Decorated Reduced Graphene Oxide Modified Glassy Carbon Electrode for Sensitive Determination of Bisphenol A. <i>Journal of the Electrochemical Society</i> , 2020, 167, 046514.	1.3	60
26	Recent progress on photocatalytic heterostructures with full solar spectral responses. <i>Chemical Engineering Journal</i> , 2020, 393, 124719.	6.6	123
27	Sensitive Voltammetric Sensor for Tryptophan Detection by Using Polyvinylpyrrolidone Functionalized Graphene/GCE. <i>Nanomaterials</i> , 2020, 10, 125.	1.9	41
28	Titania/Electro-Reduced Graphene Oxide Nanohybrid as an Efficient Electrochemical Sensor for the Determination of Allura Red. <i>Nanomaterials</i> , 2020, 10, 307.	1.9	46
29	Electrochemical Sensing Fabricated with Ta <sub>2</sub> O <sub>5</sub> Nanoparticle-Electrochemically Reduced Graphene Oxide Nanocomposite for the Detection of Oxytetracycline. <i>Biomolecules</i> , 2020, 10, 110.	1.8	58
30	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
31	Review of semi-dry electrodes for EEG recording. <i>Journal of Neural Engineering</i> , 2020, 17, 051004.	1.8	95
32	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
33	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
34	A Simple and Efficient Molecularly Imprinted Electrochemical Sensor for the Selective Determination of Tryptophan. <i>Biomolecules</i> , 2019, 9, 294.	1.8	52
35	Facile Preparation of Fe <sub>3</sub> O <sub>4</sub> /C Nanocomposite and Its Application for Cost-Effective and Sensitive Detection of Tryptophan. <i>Biomolecules</i> , 2019, 9, 245.	1.8	56
36	Morphology-Dependent Electrochemical Sensing Properties of Iron Oxide-Graphene Oxide Nanohybrids for Dopamine and Uric Acid. <i>Nanomaterials</i> , 2019, 9, 835.	1.9	93

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37	Review "Recent Developments on Graphene-Based Electrochemical Sensors toward Nitrite. Journal of the Electrochemical Society, 2019, 166, B881-B895.	1.3	161
38	Catalytic Application and Mechanism Studies of Argentic Chloride Coupled Ag/Au Hollow Heterostructures: Considering the Interface Between Ag/Au Bimetals. Nanoscale Research Letters, 2019, 14, 35.	3.1	23
39	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
40	The Preparation and Properties of Multilayer Cu-MTa <sub>2</sub> O <sub>5</sub> Composite Coatings on Ti6Al4V for Biomedical Applications. Nanomaterials, 2019, 9, 1498.	1.9	14
41	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
42	Facile Electrochemical Sensor for Nanomolar Rutin Detection Based on Magnetite Nanoparticles and Reduced Graphene Oxide Decorated Electrode. Nanomaterials, 2019, 9, 115.	1.9	104
43	Rapid and Sensitive Voltammetric Detection of Rhodamine B in Chili-Containing Foodstuffs Using MnO <sub>2</sub> Nanorods/Electro-Reduced Graphene Oxide Composite. Journal of the Electrochemical Society, 2019, 166, B805-B813.	1.3	51
44	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
45	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. Nanomaterials, 2019, 9, 847.	1.9	86
46	Fabrication and Performance of ZnO Doped Tantalum Oxide Multilayer Composite Coatings on Ti6Al4V for Orthopedic Application. Nanomaterials, 2019, 9, 685.	1.9	26
47	Electrochemical Sensor for Rapid and Sensitive Detection of Tryptophan by a Cu <sub>2</sub> O Nanoparticles-Coated Reduced Graphene Oxide Nanocomposite. Biomolecules, 2019, 9, 176.	1.8	92
48	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
49	Facile and Ultrasensitive Determination of 4-Nitrophenol Based on Acetylene Black Paste and Graphene Hybrid Electrode. Nanomaterials, 2019, 9, 429.	1.9	115
50	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
51	A promising sensing platform toward dopamine using MnO <sub>2</sub> nanowires/electro-reduced graphene oxide composites. Electrochimica Acta, 2019, 296, 683-692.	2.6	201
52	Morphologically Tunable MnO <sub>2</sub> Nanoparticles Fabrication, Modelling and Their Influences on Electrochemical Sensing Performance toward Dopamine. Catalysts, 2018, 8, 323.	1.6	36
53	Determination of Uric Acid in Co-Presence of Dopamine and Ascorbic Acid Using Cuprous Oxide Nanoparticle-Functionalized Graphene Decorated Glassy Carbon Electrode. Catalysts, 2018, 8, 407.	1.6	23
54	Manganese dioxide Nanorods/electrochemically reduced graphene oxide nanocomposites modified electrodes for cost-effective and ultrasensitive detection of Amaranth. Colloids and Surfaces B: Biointerfaces, 2018, 172, 565-572.	2.5	119

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55	Novel Electrochemical Sensors Based on Cuprous Oxide-Electrochemically Reduced Graphene Oxide Nanocomposites Modified Electrode toward Sensitive Detection of Sunset Yellow. <i>Molecules</i> , 2018, 23, 2130.	1.7	47
56	Sodium Acetate Orientated Hollow/Mesoporous Magnetite Nanoparticles: Facile Synthesis, Characterization and Formation Mechanism. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 292.	1.3	31
57	Efficiently Enhancing Electrocatalytic Activity of $\gamma$ -MnO <sub>2</sub> Nanorods/N-Doped Ketjenblack Carbon for Oxygen Reduction Reaction and Oxygen Evolution Reaction Using Facile Regulated Hydrothermal Treatment. <i>Catalysts</i> , 2018, 8, 138.	1.6	69
58	Towards Improvements for Penetrating the Bloodâ€œBrain Barrierâ€œRecent Progress from a Material and Pharmaceutical Perspective. <i>Cells</i> , 2018, 7, 24.	1.8	207
59	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
60	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
61	Sensitive and Selective Detection of Tartrazine Based on TiO <sub>2</sub> -Electrochemically Reduced Graphene Oxide Composite-Modified Electrodes. <i>Sensors</i> , 2018, 18, 1911.	2.1	71
62	Spherical $\gamma$ -MnO <sub>2</sub> Supported on N-KB as Efficient Electrocatalyst for Oxygen Reduction in Alâ€œAir Battery. <i>Materials</i> , 2018, 11, 601.	1.3	56
63	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
64	Chemically Surface Tunable Solubility Parameter for Controllable Drug Deliveryâ€œAn Example and Perspective from Hollow PAA-Coated Magnetite Nanoparticles with R6G Model Drug. <i>Materials</i> , 2018, 11, 247.	1.3	28
65	Pharmaceutical Application of Magnetic Iron Oxide Nanoparticles. <i>Science of Advanced Materials</i> , 2015, 7, 672-685.	0.1	12
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	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