Tran Quang Huy

List of Publications by Year
in descending order

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81 papers	2,799 citations	201385 27 h-index	189595 50 g-index
81 all docs	81 docs citations	81 times ranked	4326 citing authors

#	Article	IF	Citations
1	Silver nanoparticles: synthesis, properties, toxicology, applications and perspectives. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2013, 4, 033001.	0.7	556
2	Cytotoxicity and antiviral activity of electrochemical â€“ synthesized silver nanoparticles against poliovirus. Journal of Virological Methods, 2017, 241, 52-57.	1.0	122
3	Synthesis of oleic acid-stabilized silver nanoparticles and analysis of their antibacterial activity. Materials Science and Engineering C, 2010, 30, 910-916.	3.8	103
4	Spinel ferrite (AFe₂O₄)-based heterostructured designs for lithium-ion battery, environmental monitoring, and biomedical applications. RSC Advances, 2020, 10, 31622-31661.	1.7	98
5	A facile synthesis of nanostructured magnesium oxide particles for enhanced adsorption performance in reactive blue 19 removal. Journal of Colloid and Interface Science, 2013, 398, 210-216.	5.0	82
6	Green synthesis of finely-dispersed highly bactericidal silver nanoparticles via modified Tollens technique. Current Applied Physics, 2010, 10, 910-916.	1.1	73
7	Green synthesis of colloidal silver nanoparticles through electrochemical method and their antibacterial activity. Materials Letters, 2016, 181, 173-177.	1.3	67
8	Graphene-coated quartz crystal microbalance for detection of volatile organic compounds at room temperature. Thin Solid Films, 2014, 568, 6-12.	0.8	61
9	Enhanced NH3 gas sensing properties of a QCM sensor by increasing the length of vertically orientated ZnO nanorods. Applied Surface Science, 2013, 265, 458-464.	3.1	60
10	Photocatalytic activity enhancement of Bi2WO6 nanoparticles by Ag doping and Ag nanoparticles modification. Journal of Alloys and Compounds, 2020, 824, 153914.	2.8	60
11	Graphene-MnFe2O4-polypyrrole ternary hybrids with synergistic effect for supercapacitor electrode. Electrochimica Acta, 2019, 314, 151-160.	2.6	58
12	A novel biosensor based on serum antibody immobilization for rapid detection of viral antigens. Talanta, 2011, 86, 271-277.	2.9	57
13	A highly sensitive electrode modified with graphene, gold nanoparticles, and molecularly imprinted over-oxidized polypyrrole for electrochemical determination of dopamine. Journal of Molecular Liquids, 2014, 198, 307-312.	2.3	52
14	Synthesis, Characterizations of Superparamagnetic Fe₃O₄â€“Ag Hybrid Nanoparticles and Their Application for Highly Effective Bacteria Inactivation. Journal of Nanoscience and Nanotechnology, 2016, 16, 5902-5912.	0.9	51
15	A label-free electrochemical biosensor based on screen-printed electrodes modified with gold nanoparticles for quick detection of bacterial pathogens. Materials Today Communications, 2021, 26, 101726.	0.9	51
16	Recent Advances of Silver Nanoparticles in Cancer Diagnosis and Treatment. Anti-Cancer Agents in Medicinal Chemistry, 2020, 20, 1276-1287.	0.9	51
17	Decoration of Silver Nanoparticles on Multiwalled Carbon Nanotubes: Antibacterial Mechanism and Ultrastructural Analysis. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	50
18	Enhanced biomineralization and protein adsorption capacity of 3D chitosan/hydroxyapatite biomimetic scaffolds applied for bone-tissue engineering. RSC Advances, 2020, 10, 43045-43057.	1.7	49

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19	Photochemical decoration of silver nanoparticles on graphene oxide nanosheets and their optical characterization. Journal of Alloys and Compounds, 2014, 615, 843-848.	2.8	48
20	Surfactant-assisted size control of hydroxyapatite nanorods for bone tissue engineering. Colloids and Surfaces B: Biointerfaces, 2014, 116, 666-673.	2.5	43
21	Characterization of immobilization methods of antiviral antibodies in serum for electrochemical biosensors. Applied Surface Science, 2011, 257, 7090-7095.	3.1	42
22	Multiselective visual gas sensor using nickel oxide nanowires as chemiresistor. Sensors and Actuators B: Chemical, 2018, 255, 2785-2793.	4.0	42
23	Coral Mucus Is a Hot Spot for Viral Infections. Applied and Environmental Microbiology, 2015, 81, 5773-5783.	1.4	40
24	Water-dispersible silver nanoparticles-decorated carbon nanomaterials: synthesis and enhanced antibacterial activity. Applied Physics A: Materials Science and Processing, 2015, 119, 85-95.	1.1	38
25	Application of Graphene Oxide-MnFe2O4 Magnetic Nanohybrids as Magnetically Separable Adsorbent for Highly Efficient Removal of Arsenic from Water. Journal of Electronic Materials, 2016, 45, 2372-2380.	1.0	34
26	Hydrothermal Synthesis of Hydroxyapatite Nanorods for Rapid Formation of Bone-Like Mineralization. Journal of Electronic Materials, 2017, 46, 5064-5072.	1.0	30
27	Reduced graphene oxide-wrapped silver nanoparticles for applications in ultrasensitive colorimetric detection of Cr(<scp>vi</scp>) ions and the carbaryl pesticide. New Journal of Chemistry, 2020, 44, 7611-7620.	1.4	29
28	Facile preparation of a DNA sensor for rapid herpes virus detection. Materials Science and Engineering C, 2010, 30, 1145-1150.	3.8	27
29	Viruses Occur Incorporated in Biogenic High-Mg Calcite from Hypersaline Microbial Mats. PLoS ONE, 2015, 10, e0130552.	1.1	27
30	Functionalized silver nanoparticles-based efficient colorimetric platform: Effects of surface capping agents on the sensing response of thiram pesticide in environmental water samples. Materials Research Bulletin, 2021, 139, 111278.	2.7	27
31	Novel silver nanoparticles: synthesis, properties and applications. International Journal of Nanotechnology, 2011, 8, 278.	0.1	26
32	A new nidovirus (NamDinh virus NDiV): Its ultrastructural characterization in the C6/36 mosquito cell line. Virology, 2013, 444, 337-342.	1.1	26
33	Polyaniline Nanowires-Based Electrochemical Immunosensor for Label Free Detection of Japanese Encephalitis Virus. Analytical Letters, 2013, 46, 1229-1240.	1.0	26
34	Dual-selective hydrogen and ethanol sensor for steam reforming systems. Sensors and Actuators B: Chemical, 2016, 236, 1011-1019.	4.0	26
35	Electrochemical stability of screen-printed electrodes modified with Au nanoparticles for detection of methicillin-resistant Staphylococcus aureus. Materials Chemistry and Physics, 2020, 255, 123562.	2.0	26
36	Roles of Phase Purity and Crystallinity on Chloramphenicol Sensing Performance of CuCo₂O₄/CuFe₂O₄-based Electrochemical Nanosensors. Journal of the Electrochemical Society, 2021, 168, 026506.	1.3	26

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37	Preparation of Rice Husk Biochar-Based Magnetic Nanocomposite for Effective Removal of Crystal Violet. Journal of Electronic Materials, 2020, 49, 1142-1149.	1.0	25
38	Viral Distribution and Life Strategies in the Bach Dang Estuary, Vietnam. Microbial Ecology, 2011, 62, 143-154.	1.4	24
39	Powerful colloidal silver nanoparticles for the prevention of gastrointestinal bacterial infections. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 045007.	0.7	24
40	Gold nanoparticles-based SERS nanosensor for thiram and chloramphenicol monitoring in food samples: Insight into effects of analyte molecular structure on their sensing performance and signal enhancement. Applied Surface Science, 2022, 584, 152555.	3.1	24
41	Selective hydrogen sensor for liquefied petroleum gas steam reforming fuel cell systems. International Journal of Hydrogen Energy, 2017, 42, 740-748.	3.8	23
42	Ultrasensitive determination of chloramphenicol in pork and chicken meat samples using a portable electrochemical sensor: effects of 2D nanomaterials on the sensing performance and stability. New Journal of Chemistry, 2021, 45, 7622-7636.	1.4	23
43	Gold nanoparticle-based optical nanosensors for food and health safety monitoring: recent advances and future perspectives. RSC Advances, 2022, 12, 10950-10988.	1.7	23
44	Observation of virus-like particles in thin sections of the bleaching scleractinian coral Acropora cytherea. Journal of the Marine Biological Association of the United Kingdom, 2013, 93, 909-912.	0.4	22
45	Protein A-conjugated iron oxide nanoparticles for separation ofVibrio choleraefrom water samples. Faraday Discussions, 2014, 175, 73-82.	1.6	21
46	Novel synthesis of highly ordered mesoporous Fe2O3/SiO2 nanocomposites for a room temperature VOC sensor. Current Applied Physics, 2013, 13, 1581-1588.	1.1	20
47	Facile Preparation of Chitosan Films for High Performance Removal of Reactive Blue 19 Dye from Aqueous Solution. Journal of Polymers and the Environment, 2017, 25, 146-155.	2.4	20
48	Silver Nanoparticles-Based SERS Platform towards Detecting Chloramphenicol and Amoxicillin: An Experimental Insight into the Role of HOMOâ€“LUMO Energy Levels of the Analyte in the SERS Signal and Charge Transfer Process. Journal of Physical Chemistry C, 2022, 126, 7778-7790.	1.5	19
49	Development of electrochemical immunosensors based on different serum antibody immobilization methods for detection of Japanese encephalitis virus. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 015012.	0.7	18
50	Functional Iron Oxideâ€“Silver Hetero-Nanocomposites: Controlled Synthesis and Antibacterial Activity. Journal of Electronic Materials, 2017, 46, 3381-3389.	1.0	17
51	Facile Synthesis and Excellent Adsorption Property of GO-Fe₃O₄ Magnetic Nanohybrids for Removal of Organic Dyes. Journal of Nanoscience and Nanotechnology, 2016, 16, 9544-9556.	0.9	16
52	Ultrasensitive Detection of Methylene Blue Using an Electrochemically Synthesized SERS Sensor Based on Gold and Silver Nanoparticles: Roles of Composition and Purity on Sensing Performance and Reliability. Journal of Electronic Materials, 2022, 51, 150-162.	1.0	16
53	Multiwalled carbon nanotubes/silver nanocomposite as effective SERS platform for detection of methylene blue dye in water. Journal of Science: Advanced Materials and Devices, 2016, 1, 84-89.	1.5	15
54	Functionalized-AgNPs for Long-Term Stability and Its Applicability in the Detection of Manganese Ions. Advances in Polymer Technology, 2020, 2020, 1-9.	0.8	15

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55	Graphene Oxide/Silver Nanohybrid as Multi-functional Material for Highly Efficient Bacterial Disinfection and Detection of Organic Dye. Journal of Electronic Materials, 2016, 45, 5321-5333.	1.0	14
56	Enhanced adsorption efficiency of inorganic chromium (VI) ions by using carbon-encapsulated hematite nanocubes. Journal of Science: Advanced Materials and Devices, 2020, 5, 392-399.	1.5	13
57	Scalable Electrochemical Synthesis of Novel Biogenic Silver Nanoparticles and Its Application to High-Sensitive Detection of 4-Nitrophenol in Aqueous System. Advances in Polymer Technology, 2021, 2021, 1-9.	0.8	11
58	Detection of vibrio cholerae O1 by using cerium oxide nanowires - based immunosensor with different antibody immobilization methods. Journal of the Korean Physical Society, 2016, 68, 1235-1245.	0.3	10
59	Antibacterial Activity of Electrochemically Synthesized Colloidal Silver Nanoparticles Against Hospital-Acquired Infections. Journal of Electronic Materials, 2017, 46, 3433-3439.	1.0	10
60	Stable Electrochemical Measurements of Platinum Screen-Printed Electrodes Modified with Vertical ZnO Nanorods for Bacterial Detection. Journal of Nanomaterials, 2019, 2019, 1-9.	1.5	10
61	Photochemical synthesis of highly bactericidal silver nanoparticles. Nanotechnologies in Russia, 2010, 5, 554-563.	0.7	9
62	Photochemical Decoration of Silver Nanocrystals on Magnetic MnFe2O4 Nanoparticles and Their Applications in Antibacterial Agents and SERS-Based Detection. Journal of Electronic Materials, 2017, 46, 3412-3421.	1.0	9
63	A hybrid design of Ag-decorated ZnO on layered nanomaterials (MgAC) with photocatalytic and antibacterial dual-functional abilities. RSC Advances, 2021, 11, 38578-38588.	1.7	9
64	Characterization and antimicrobial activity of silver nanoparticles prepared by a thermal decomposition technique. Applied Physics A: Materials Science and Processing, 2013, 113, 613-621.	1.1	8
65	Two-Step Hydrothermal Synthesis of Bifunctional Hematiteâ€“Silver Heterodimer Nanoparticles for Potential Antibacterial and Anticancer Applications. Journal of Electronic Materials, 2017, 46, 3323-3332.	1.0	7
66	APTES Functionalized Iron Oxideâ€“Silver Magnetic Hetero-Nanocomposites for Selective Capture and Rapid Removal of Salmonella enteritidis from Aqueous Solution. Journal of Electronic Materials, 2018, 47, 2851-2860.	1.0	7
67	Synthesis, Structural Characterization and Up-Conversion Luminescence Properties of NaYF4:Er3+,Yb3+@MOFs Nanocomposites. Journal of Electronic Materials, 2017, 46, 6063-6069.	1.0	6
68	AuNPs-Modified Screen-Printed Electrodes (SPCE and SPPtE) for Enhanced Direct Detection of Chloramphenicol. Journal of Electronic Materials, 2022, 51, 1669-1680.	1.0	6
69	Towards the use of protein A-tagged gold nanoparticles for signal amplification of electrochemical immunosensors in virus detection. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 025013.	0.7	4
70	Characterization of Co²⁺- and Fe³⁺-Codoped TiO₂ Nanomaterials for Photocatalytic Degradation of Organic Pollutants under Visible Light Irradiation. Adsorption Science and Technology, 2021, 2021, .	1.5	4
71	Electrochemical Properties of LaNi5-xGaxAlloys Used as the Negative Electrodes of Ni-MH Batteries. Analytical Letters, 2013, 46, 1897-1909.	1.0	3
72	Antibacterial activity of a berberine nanoformulation. Beilstein Journal of Nanotechnology, 0, 13, 641-652.	1.5	3

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73	Preparation and Characterization of Aminosilane-Functionalized Magnetic Antibody Conjugates for Bacterial Recognition and Capture. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	2
74	ZnO Nanowires-C Microfiber Hybrid Nanosensor for Liquefied Petroleum Gas Detection. Journal of Nanoscience and Nanotechnology, 2014, 14, 5088-5094.	0.9	1
75	Depletion layer and dimensionality of ZnO nanostructures. , 2015, , .		1
76	Fabrication of Electrochemical Electrodes Based on Platinum and (ext{ZnO}) Nanofibers for Biosensing Applications. Communications in Physics, 2017, 27, 221.	0.0	1
77	Coral-associated viruses and bacteria in the Ha Long Bay, Vietnam. Aquatic Microbial Ecology, 2015, 76, 149-161.	0.9	1
78	Enhancing Electron Transfer and Stability of Screen-Printed Carbon Electrodes Modified with AgNP-Reduced Graphene Oxide Nanocomposite. Journal of Electronic Materials, 2022, 51, 1004-1012.	1.0	1
79	Nanomaterials for Biomedical Applications and Environmental Monitoring. Journal of Nanomaterials, 2015, 2015, 1-2.	1.5	0
80	Synthesis of Gold Nanoparticles Conjugated with Protein A: Towards the Application in Biosensors for Virus Detection. Communications in Physics, 2012, 21, 333.	0.0	0
81	Gold Nanoparticles-Based SERS Nanosensor for Thiram and Chloramphenicol Monitoring in Food Samples: Insight into Effects of Analyte Molecular Structure on Their Sensing Performance and Signal Enhancement. SSRN Electronic Journal, 0, , .	0.4	0