Dai Lam Tran

List of Publications by Year
in descending order

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98 papers	3,526 citations	126708 33 h-index	143772 57 g-index
99 all docs	99 docs citations	99 times ranked	5182 citing authors

#	Article	IF	Citations
1	Preparation of chitosan/magnetite composite beads and their application for removal of Pb(II) and Ni(II) from aqueous solution. Materials Science and Engineering C, 2010, 30, 304-310.	3.8	327
2	Label-free and reagentless electrochemical detection of microRNAs using a conducting polymer nanostructured by carbon nanotubes: Application to prostate cancer biomarker miR-141. Biosensors and Bioelectronics, 2013, 49, 164-169.	5.3	162
3	Synthesis, characterization, antibacterial and antiproliferative activities of monodisperse chitosan-based silver nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 360, 32-40.	2.3	147
4	Label-free detection of aflatoxin M1 with electrochemical Fe3O4/polyaniline-based aptasensor. Materials Science and Engineering C, 2013, 33, 2229-2234.	3.8	143
5	Magnetic chitosan nanoparticles for removal of Cr(VI) from aqueous solution. Materials Science and Engineering C, 2013, 33, 1214-1218.	3.8	143
6	Facile construction of S-scheme SnO2/g-C3N4 photocatalyst for improved photoactivity. Chemosphere, 2022, 289, 133120.	4.2	126
7	Characteristics of curcumin-loaded poly (lactic acid) nanofibers for wound healing. Journal of Materials Science, 2013, 48, 7125-7133.	1.7	116
8	Effect of titanium dioxide on the properties of polyethylene/TiO2 nanocomposites. Composites Part B: Engineering, 2013, 45, 1192-1198.	5.9	98
9	Effect of nanosized and surface-modified precipitated calcium carbonate on properties of CaCO3/polypropylene nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 501, 87-93.	2.6	96
10	Multi-wall carbon nanotubes (MWCNTs)-doped polypyrrole DNA biosensor for label-free detection of genetically modified organisms by QCM and EIS. Talanta, 2010, 80, 1164-1169.	2.9	89
11	Optimization of Microwave-Assisted Extraction of Essential Oil from Vietnamese Basil (Ocimum) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	84
12	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
13	Facile synthesis of Î±-Fe 2 O 3 nanoparticles for high-performance CO gas sensor. Materials Research Bulletin, 2015, 68, 302-307.	2.7	80
14	Selective detection of carbon dioxide using LaOCl-functionalized SnO2 nanowires for air-quality monitoring. Talanta, 2012, 88, 152-159.	2.9	77
15	Electrochemical detection of short HIV sequences on chitosan/Fe3O4 nanoparticle based screen printed electrodes. Materials Science and Engineering C, 2011, 31, 477-485.	3.8	76
16	Synthesis, characterization, and comparative gas-sensing properties of Fe2O3 prepared from Fe3O4 and Fe3O4-chitosan. Journal of Alloys and Compounds, 2012, 523, 120-126.	2.8	72
17	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. Catalysts, 2018, 8, 487.	1.6	66
18	Facile surface modification of nanoprecipitated calcium carbonate by adsorption of sodium stearate in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 366, 95-103.	2.3	60

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19	TiO2/Ti3C2/g-C3N4 ternary heterojunction for photocatalytic hydrogen evolution. Chemosphere, 2021, 285, 131429.	4.2	59
20	Development of interdigitated arrays coated with functional polyaniline/MWCNT for electrochemical biodetection: Application for human papilloma virus. Talanta, 2011, 85, 1560-1565.	2.9	58
21	Nanosized magnetofluorescent Fe3O4â€“curcumin conjugate for multimodal monitoring and drug targeting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 104-112.	2.3	55
22	A label-free electrochemical immunosensor for direct, signal-on and sensitive pesticide detection. Biosensors and Bioelectronics, 2012, 31, 62-68.	5.3	55
23	Anodic stripping voltammetric determination of Cd2+ and Pb2+ using interpenetrated MWCNT/P1,5-DAN as an enhanced sensing interface. Ionics, 2015, 21, 571-578.	1.2	53
24	Direct Electrochemical Detection of Oligonucleotide Hybridization on Poly(5-hydroxy-1,4-naphthoquinone-co-5-hydroxy-3-thioacetic Acid-1,4-naphthoquinone) Film. Analytical Chemistry, 2003, 75, 6748-6752.	3.2	50
25	A polytyramine film for covalent immobilization of oligonucleotides and hybridization. Synthetic Metals, 2003, 139, 251-262.	2.1	48
26	Metal-Organic Framework MIL-53(Fe) as an Adsorbent for Ibuprofen Drug Removal from Aqueous Solutions: Response Surface Modeling and Optimization. Journal of Chemistry, 2019, 2019, 1-11.	0.9	46
27	Reagentless amperometric detection of l-lactate on an enzyme-modified conducting copolymer poly(5-hydroxy-1,4-naphthoquinone-co-5-hydroxy-3-thioacetic acid-1,4-naphthoquinone). Biosensors and Bioelectronics, 2004, 19, 1325-1329.	5.3	43
28	Development of label-free electrochemical lactose biosensor based on graphene/poly(1,5-diaminonaphthalene) film. Current Applied Physics, 2016, 16, 135-140.	1.1	39
29	Design of carboxylated Fe3O4/poly(styrene-co-acrylic acid) ferrofluids with highly efficient magnetic heating effect. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 23-30.	2.3	36
30	Electrochemical Immunosensor for Detection of Atrazine Based on Polyaniline/Graphene. Journal of Materials Science and Technology, 2016, 32, 539-544.	5.6	36
31	Modified interdigitated arrays by novel poly(1,8-diaminonaphthalene)/carbon nanotubes composite for selective detection of mercury(II). Talanta, 2011, 85, 2445-2450.	2.9	35
32	Injectable Hydrogel Composite Based Gelatin-PEG and Biphasic Calcium Phosphate Nanoparticles for Bone Regeneration. Journal of Electronic Materials, 2016, 45, 2415-2422.	1.0	35
33	Correlation between photoluminescence spectra with gas sensing and photocatalytic activities in hierarchical ZnO nanostructures. RSC Advances, 2017, 7, 9826-9832.	1.7	34
34	Adsorption of Ni(II) ions by magnetic activated carbon/chitosan beads prepared from spent coffee grounds, shrimp shells and green tea extract. Environmental Technology (United Kingdom), 2020, 41, 2817-2832.	1.2	34
35	Label-free and reagentless electrochemical detection of PCR fragments using self-assembled quinone derivative monolayer: Application to Mycobacterium tuberculosis. Biosensors and Bioelectronics, 2012, 32, 163-168.	5.3	33
36	Study on preparation and characterization of MOF based lanthanide doped luminescent coordination polymers. Materials Chemistry and Physics, 2014, 143, 946-951.	2.0	32

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37	Investigation of crosslinking, mechanical properties and weathering stability of acrylic polyurethane coating reinforced by SiO2 nanoparticles issued from rice husk ash. Materials Chemistry and Physics, 2020, 241, 122445.	2.0	32
38	Surface-plasmon-enhanced ultraviolet emission of Au-decorated ZnO structures for gas sensing and photocatalytic devices. Beilstein Journal of Nanotechnology, 2018, 9, 771-779.	1.5	28
39	Construction of S-scheme CdS/g-C3N4 nanocomposite with improved visible-light photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112556.	3.7	28
40	Enzyme-less electrochemical displacement heterogeneous immunosensor for diclofenac detection. Biosensors and Bioelectronics, 2017, 97, 246-252.	5.3	27
41	Coconut shell-derived activated carbon and carbon nanotubes composite: a promising candidate for capacitive deionization electrode. Synthetic Metals, 2020, 265, 116415.	2.1	27
42	Graphene patterned polyaniline-based biosensor for glucose detection. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 025011.	0.7	25
43	Towards the detection of human papillomavirus infection by a reagentless electrochemical peptide biosensor. Electrochimica Acta, 2011, 56, 10688-10693.	2.6	24
44	Study on preparation and properties of a novel photo-catalytic material based on copper-centred metal-organic frameworks (Cu-MOF) and titanium dioxide. International Journal of Nanotechnology, 2015, 12, 447.	0.1	23
45	Oneâ€step Electrosynthesis of Poly(1,5â€diaminonaphthalene)/Graphene Nanocomposite as Platform for Lead Detection in Water. Electroanalysis, 2016, 28, 1907-1913.	1.5	22
46	Functionalization of Fe₃O₄ nanoparticles with biodegradable chitosan-grafted-mPEG for paclitaxel delivery. Green Processing and Synthesis, 2016, 5, 459-466.	1.3	22
47	Microwave-Assisted Synthesis of Silver Nanoparticles Using Chitosan: A Novel Approach. Materials and Manufacturing Processes, 2014, 29, 418-421.	2.7	21
48	Preparation and anti-cancer activity of polymer-encapsulated curcumin nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 035002.	0.7	20
49	Facile synthesis of multifunctional Ag/Fe3O4-CS nanocomposites for antibacterial and hyperthermic applications. Current Applied Physics, 2015, 15, 1482-1487.	1.1	19
50	Enhanced capacitive deionization performance of activated carbon derived from coconut shell electrodes with low content carbon nanotubesâ€“graphene synergistic hybrid additive. Materials Letters, 2021, 292, 129652.	1.3	19
51	Design of a new electrogenerated polyquinone film substituted with glutathione. Towards direct electrochemical biosensors. Talanta, 2010, 80, 1318-1325.	2.9	17
52	Fabrication of PDMS-Based Microfluidic Devices: Application for Synthesis of Magnetic Nanoparticles. Journal of Electronic Materials, 2016, 45, 2576-2581.	1.0	17
53	Simultaneous degradation of 2,4,6-trinitrophenyl-N-methylnitramine (Tetryl) and hexahydro-1,3,5-trinitro-1,3,5 triazine (RDX) in polluted wastewater using some advanced oxidation processes. Journal of Industrial and Engineering Chemistry, 2014, 20, 1468-1475.	2.9	16
54	Green processing of thermosensitive nanocurcumin-encapsulated chitosan hydrogel towards biomedical application. Green Processing and Synthesis, 2016, 5, .	1.3	16

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55	Development of a PMMA Electrochemical Microfluidic Device for Carcinoembryonic Antigen Detection. Journal of Electronic Materials, 2016, 45, 2455-2462.	1.0	16
56	Reduced graphene oxide-polyaniline film as enhanced sensing interface for the detection of loop-mediated-isothermal-amplification products by open circuit potential measurement. RSC Advances, 2018, 8, 25361-25367.	1.7	16
57	Facile and solvent-free routes for the synthesis of size-controllable Fe 3 O 4 nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 035001.	0.7	15
58	Characterizations and Antibacterial Efficacy of Chitosan Oligomers Synthesized by Microwave-Assisted Hydrogen Peroxide Oxidative Depolymerization Method for Infectious Wound Applications. Materials, 2021, 14, 4475.	1.3	15
59	Biomedical and environmental applications of magnetic nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 045013.	0.7	13
60	Fabrication of poly (lactic acid)/hydroxyapatite (PLA/HAp) porous nanocomposite for bone regeneration. International Journal of Nanotechnology, 2015, 12, 391.	0.1	13
61	Ordered Nanoporous Thin Films by Nanosphere Lithography and Diazonium Electroreduction: Simple Elaboration of Ultraâ€Microâ€Electrode Arrays. ChemElectroChem, 2016, 3, 2264-2269.	1.7	13
62	Fabrication of Porous Hydroxyapatite Granules as an Effective Adsorbent for the Removal of Aqueous Pb(II) Ions. Journal of Chemistry, 2019, 2019, 1-10.	0.9	13
63	Non-woven polyester fabric-supported cuprous oxide/reduced graphene oxide nanocomposite for photocatalytic degradation of methylene blue. Journal of Materials Science, 2021, 56, 10353-10366.	1.7	13
64	Effect of gamma irradiation and pyrolysis on indigestible fraction, physicochemical properties, and molecular structure of rice starch. Journal of Food Processing and Preservation, 2021, 45, e15880.	0.9	13
65	Surface Functionalization of WO3 Thin Films with (3-Aminopropyl)triethoxysilane and Succinic Anhydride. Journal of Electronic Materials, 2017, 46, 3345-3352.	1.0	12
66	The role of copper nanoparticles decorating polydopamine/graphene film as catalyst in the enhancement of uric acid sensing. Journal of Electroanalytical Chemistry, 2021, 893, 115322.	1.9	12
67	PMMA Bone Cements Modified with Silane-Treated and PMMA-Grafted Hydroxyapatite Nanocrystals: Preparation and Characterization. Polymers, 2021, 13, 3860.	2.0	12
68	Some biomedical applications of chitosan-based hybrid nanomaterials. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 045004.	0.7	9
69	Covalent immobilization of cholesterol oxidase and poly(styrene-co-acrylic acid) magnetic microspheres on polyaniline films for amperometric cholesterol biosensing. Analytical Methods, 2013, 5, 1392.	1.3	8
70	Electrochemical Immunosensor Based on Fe3O4/PANI/AuNP Detecting Interface for Carcinoembryonic Antigen Biomarker. Journal of Electronic Materials, 2017, 46, 5755-5763.	1.0	8
71	Enhancement of the Thermomechanical Properties of a Fly Ash- and Carbon Black-Filled Polyvinyl Chloride Composite by Using Epoxidized Soybean Oil as a Secondary Bioplasticizer. International Journal of Polymer Science, 2018, 2018, 1-8.	1.2	8
72	Degradation and mineralization of 2,4,6-trinitroresorcine in various photochemical systems. Materials Science and Engineering C, 2013, 33, 1975-1982.	3.8	7

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73	Vertically Well-Aligned ZnO Nanowire Arrays Directly Synthesized from Zn Vapor Deposition Without Catalyst. Journal of Electronic Materials, 2016, 45, 2601-2607.	1.0	6
74	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
75	Design and Fabrication of a PDMS-Based Manual Micro-Valve System for Microfluidic Applications. Advances in Polymer Technology, 2020, 2020, 1-7.	0.8	6
76	Functionalization of reduced graphene oxide by electroactive polymer for biosensing applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 035005.	0.7	5
77	Hydrolysis of green nanocomposites of poly(lactic acid) (PLA), chitosan (CS) and polyethylene glycol (PEG) in acid solution. Green Processing and Synthesis, 2016, 5, 443-449.	1.3	5
78	Effects of Fe Doping on the Structural, Optical, and Magnetic Properties of TiO2 Nanoparticles. Journal of Electronic Materials, 2016, 45, 6033-6037.	1.0	5
79	Photocatalytic Activity of BiTaO4 Nanoparticles for the Degradation of Methyl Orange Under Visible Light. Journal of Electronic Materials, 2019, 48, 3131-3136.	1.0	5
80	Graphene Decorated with Silver Nanoparticles as Electrocatalytic Labels in Non-Enzymatic Bisphenol-A Immunosensor. Journal of Cluster Science, 2022, 33, 2277-2285.	1.7	5
81	Efficient nickel or copper oxides decorated grapheneâ€“polyaniline interface for application in selective methanol sensing. RSC Advances, 2021, 11, 28573-28580.	1.7	5
82	Electropolymerized Polytyramine Films: Covalent Binding of Oligonucleotides and Hybridization. Synthetic Metals, 2003, 137, 1439-1440.	2.1	4
83	Supramolecular chemistry at interfaces: host-guest interactions for attaching PEG and 5-fluorouracil to the surface of porous nanosilica. Green Processing and Synthesis, 2016, 5, .	1.3	4
84	A Two-Step Method for the Preparation of Highly Conductive Graphene Film and Its Gas-Sensing Property. Materials Sciences and Applications, 2015, 06, 963-977.	0.3	4
85	Design of NiOOH/PANI-Gr and NiOOH/PANI-CNTs Interfaces for Sensitive and Selective Methanol Electrochemical Sensors. Journal of the Electrochemical Society, 2021, 168, 107509.	1.3	4
86	Understanding Electrical Conduction States in WO3 Thin Films Applied for Resistive Random-Access Memory. Journal of Electronic Materials, 2016, 45, 2423-2432.	1.0	3
87	Influence of the Preparation Method on Some Characteristics of Alginate/Chitosan/Lovastatin Composites. Advances in Polymer Technology, 2020, 2020, 1-12.	0.8	3
88	PANI-CNTs Microstructure with Interconnected NiOâ€“NiOOH Particles as Selective Sensing Interface for Methanol Electrochemical Sensor. Journal of Cluster Science, 2023, 34, 1259-1267.	1.7	3
89	Treatment of fluoride in well-water in Khanhhoa, Vietnam by aluminum hydroxide coated rice husk ash. Green Processing and Synthesis, 2016, 5, 479-489.	1.3	2
90	Band Gap, Molecular Energy and Electrochromic Characterization of Electrosynthesized Hydroxymethyl 3,4-Ethylenedioxythiophene. Journal of Electronic Materials, 2017, 46, 1669-1673.	1.0	2

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91	Biochip for Real-Time Monitoring of Hepatitis B Virus (HBV) by Combined Loop-Mediated Isothermal Amplification and Solution-Phase Electrochemical Detection. Journal of Electronic Materials, 2017, 46, 3565-3571.	1.0	2
92	Preparation and Characterization of Fe-Doped TiO2 Films Covered on Silicagel. Journal of Electronic Materials, 2016, 45, 3795-3800.	1.0	1
93	Polypropylene/TiO₂ Nanocomposites: Study on Mechanical and Structural Properties. Advanced Science Letters, 2013, 19, 839-844.	0.2	1
94	Facile Synthesis and Characterization of the Reduced Graphene Oxide/Co(_3)O(_4) Nanocomposite for Capacitive Application. Communications in Physics, 2020, 30, 409.	0.0	1
95	4th Asia-Pacific Chemical and Biological Microfluidics Conference (APCBM 2015). Green Processing and Synthesis, 2016, 5, .	1.3	0
96	Parameters controlling the advanced oxidation degradation kinetics of nitroglycerin and pentaerythritol tetranitrate. Green Processing and Synthesis, 2018, 7, 61-67.	1.3	0
97	Facile Synthesis of CuO/ITO Film Via the Chronoamperometric Electrodeposition for Nonenzymatic Glucose Sensing. Communications in Physics, 2020, 30, 161.	0.0	0
98	Microfluidic Chip for Trapping Magnetic Nanoparticles and Heating in Terms of Biological Analysis. Communications in Physics, 2020, 30, .	0.0	0