

Razak Wahab

List of Publications by Year in descending order

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98
papers

2,815
citations

201674

27
h-index

189892

50
g-index

99
all docs

99
docs citations

99
times ranked

4004
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive Oxygen Species Mediated Bacterial Biofilm Inhibition via Zinc Oxide Nanoparticles and Their Statistical Determination. PLoS ONE, 2014, 9, e111289.	2.5	269
2	ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2014, 117, 267-276.	5.0	254
3	Antibacterial activity of ZnO nanoparticles prepared via non-hydrolytic solution route. Applied Microbiology and Biotechnology, 2010, 87, 1917-1925.	3.6	182
4	Microbial synthesis of gold nanoparticles using the fungus <i>Penicillium brevicompactum</i> and their cytotoxic effects against mouse mayo blast cancer C2C12 cells. Applied Microbiology and Biotechnology, 2011, 92, 617-630.	3.6	180
5	Formation of ZnO Micro-Flowers Prepared via Solution Process and their Antibacterial Activity. Nanoscale Research Letters, 2010, 5, 1675-1681.	5.7	124
6	Co-precipitation synthesis and characterization of Co doped SnO ₂ NPs, HSA interaction via various spectroscopic techniques and their antimicrobial and photocatalytic activities. International Journal of Biological Macromolecules, 2017, 94, 554-565.	7.5	101
7	Fabrication and growth mechanism of ZnO nanostructures and their cytotoxic effect on human brain tumor U87, cervical cancer HeLa, and normal HEK cells. Journal of Biological Inorganic Chemistry, 2011, 16, 431-442.	2.6	99
8	ZnO Nanoparticles Induce Oxidative Stress in Cloudman S91 Melanoma Cancer Cells. Journal of Biomedical Nanotechnology, 2013, 9, 441-449.	1.1	86
9	ZnO Nanoparticles Induces Cell Death in Malignant Human T98G Gliomas, KB and Non-Malignant HEK Cells. Journal of Biomedical Nanotechnology, 2013, 9, 1181-1189.	1.1	85
10	Statistical analysis of gold nanoparticle-induced oxidative stress and apoptosis in myoblast (C2C12) cells. Colloids and Surfaces B: Biointerfaces, 2014, 123, 664-672.	5.0	65
11	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. Biomass and Bioenergy, 2012, 39, 227-236.	5.7	62
12	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). Colloids and Surfaces B: Biointerfaces, 2015, 125, 73-81.	5.0	55
13	Hematite iron oxide nanoparticles: apoptosis of myoblast cancer cells and their arithmetical assessment. RSC Advances, 2018, 8, 24750-24759.	3.6	52
14	Fabrication, characterization and growth mechanism of heterostructured zinc oxide nanostructures via solution method. Current Applied Physics, 2011, 11, 334-340.	2.4	50
15	Antibacterial studies and statistical design set data of quasi zinc oxide nanostructures. RSC Advances, 2016, 6, 32328-32339.	3.6	50
16	Green biosynthesis of silver nanoparticles using <i>Torreya nucifera</i> and their antibacterial activity. Arabian Journal of Chemistry, 2019, 12, 1722-1732.	4.9	50
17	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. Colloids and Surfaces B: Biointerfaces, 2013, 111, 211-217.	5.0	48
18	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. Journal of Applied Toxicology, 2016, 36, 1284-1293.	2.8	47

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19	Anticoccidial and antioxidant activities of zinc oxide nanoparticles on Eimeria papillata-induced infection in the jejunum. International Journal of Nanomedicine, 2015, 10, 1961.	6.7	44
20	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. RSC Advances, 2016, 6, 26111-26120.	3.6	43
21	Synthesis of thermally stable monodispersed Au@SnO ₂ core-shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. Analytical Methods, 2013, 5, 1456.	2.7	39
22	Applications of ZnO Nanoflowers as Antimicrobial Agents for <i>Escherichia coli</i> and Enzyme-Free Glucose Sensor. Journal of Biomedical Nanotechnology, 2013, 9, 1794-1802.	1.1	38
23	Antibacterial activity of trimetal (CuZnFe) oxide nanoparticles. International Journal of Nanomedicine, 2018, Volume 13, 77-87.	6.7	36
24	Synthesis of silver nanoparticles decorated on reduced graphene oxide nanosheets and their electrochemical sensing towards hazardous 4-nitrophenol. Journal of Materials Science: Materials in Electronics, 2020, 31, 11927-11937.	2.2	33
25	Evaluation on some finishing properties of oil palm plywood. European Journal of Wood and Wood Products, 2008, 66, 5-10.	2.9	31
26	Impact of gold nanoparticles on brain of mice infected with Schistosoma mansoni. Parasitology Research, 2015, 114, 3711-3719.	1.6	31
27	Genotoxicity of ferric oxide nanoparticles in Raphanus sativus : Deciphering the role of signaling factors, oxidative stress and cell death. Journal of Environmental Sciences, 2016, 47, 49-62.	6.1	28
28	Platinum Quantum Dots and Their Cytotoxic Effect Towards Myoblast Cancer Cells (C ₂ C ₁₂). Journal of Biomedical Nanotechnology, 2012, 8, 424-431.	1.1	26
29	Silica-supported NiO nanocomposites prepared via a sol-gel technique and their excellent catalytic performance for one-pot multicomponent synthesis of benzodiazepine derivatives under microwave irradiation. New Journal of Chemistry, 2017, 41, 5893-5903.	2.8	26
30	Dual role of oxidative stress-JNK activation in autophagy and apoptosis induced by nickel oxide nanoparticles in human cancer cells. Free Radical Biology and Medicine, 2020, 153, 173-186.	2.9	26
31	Controlled Synthesis of Zinc Oxide Nanoneedles and Their Transformation to Microflowers. Science of Advanced Materials, 2010, 2, 35-42.	0.7	25
32	Cytotoxicity and cell death induced by engineered nanostructures (quantum dots and nanoparticles) in human cell lines. Journal of Biological Inorganic Chemistry, 2020, 25, 325-338.	2.6	24
33	Treatment of oral hyperpigmentation and gummy smile using lasers and role of plasma as a novel treatment technique in dentistry: An introductory review. Oncotarget, 2017, 8, 20496-20509.	1.8	22
34	Synthesis of NiO@CeO ₂ nanocomposite for electrochemical sensing of perilous 4-nitrophenol. Journal of Materials Science: Materials in Electronics, 2019, 30, 17643-17653.	2.2	22
35	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO ₂ nanoparticles in A549 cells. Human and Experimental Toxicology, 2018, 37, 496-507.	2.2	21
36	Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their applications for statistical analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 101-108.	2.7	20

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37	Enhance antimicrobial activity of ZnO nanomaterials (QDs and NPs) and their analytical applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 62, 111-117.	2.7	18
38	Gold quantum dots impair the tumorigenic potential of glioma stem-like cells via β -catenin downregulation in vitro. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 1131-1148.	6.7	16
39	Syngas Production via CO ₂ Reforming of Methane over SrNiO ₃ and CeNiO ₃ Perovskites. <i>Energies</i> , 2021, 14, 2928.	3.1	16
40	Nanorods of ZnO: An effective hydrazine sensor and their chemical properties. <i>Vacuum</i> , 2019, 165, 290-296.	3.5	15
41	Strength and Durability of Bamboo Treated Through an Oil-curing Process. <i>Journal of Biological Sciences</i> , 2004, 4, 658-663.	0.3	15
42	Biogenesis of Gold Nanoparticles Using Plant Powders and Assessment of In Vitro Cytotoxicity in 3T3-L1 Cell Line. <i>Journal of Pharmaceutical Innovation</i> , 2013, 8, 265-275.	2.4	14
43	Nanocubic magnesium oxide: Towards hydrazine sensing. <i>Vacuum</i> , 2018, 155, 682-688.	3.5	14
44	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2017, 64, 203-216.	0.8	13
45	Poly (2,6-Toluidine Zirconium(IV) Iodosulfosalicylate-Based Ion-Selective Membrane Electrode for Potentiometric Determination of Cr(III) Ions and Its Analytical Applications. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14897-14903.	3.7	12
46	Rapid sensing response for phenol with CuO nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125424.	4.7	12
47	ZnO Nanoparticles: Cytological Effect on Chick Fibroblast Cells and Antimicrobial Activities Towards <i>Escherichia Coli</i> and <i>Bacillus Subtilis</i> . <i>Science of Advanced Materials</i> , 2013, 5, 1571-1580.	0.7	12
48	Functionalization of anti-Brucella antibody on ZnO-NPs and their deposition on aluminum sheet towards developing a sensor for the detection of Brucella. <i>Vacuum</i> , 2017, 146, 592-598.	3.5	11
49	Evaluation of cytotoxic responses of raw and functionalized multi-walled carbon nanotubes in human breast cancer (MCF-7) cells. <i>Vacuum</i> , 2017, 146, 578-585.	3.5	11
50	Peanut-shaped ZnO nanostructures: A driving force for enriched antibacterial activity and their statistical analysis. <i>Ceramics International</i> , 2020, 46, 307-316.	4.8	11
51	Optical Analysis of Zinc Oxide Quantum Dots with Bovine Serum Albumin and Bovine Hemoglobin. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 48-52.	2.4	10
52	MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor. <i>Vacuum</i> , 2017, 146, 623-632.	3.5	9
53	Plasma-Treated <i>Flammulina velutipes</i> -Derived Extract Showed Anticancer Potential in Human Breast Cancer Cells. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8395.	2.5	9
54	A simple method to deposit palladium doped SnO ₂ thin films using plasma enhanced chemical vapor deposition technique. <i>Review of Scientific Instruments</i> , 2010, 81, 113903.	1.3	8

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55	Synthesis and Characterization of High-Purity Silica Nanosphere from Rice Husk. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5934-5938.	0.9	8
56	Facile Growth of Barium Oxide Nanorods: Structural and Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5342-5346.	0.9	8
57	Fungal Colonisation and Decay in Tropical Bamboo Species. <i>Journal of Applied Sciences</i> , 2005, 5, 897-902.	0.3	8
58	Properties of Laminated Veneer Lumbers from Oil Palm Trunks. <i>Journal of Plant Sciences</i> , 2008, 3, 255-259.	0.2	8
59	CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. <i>Korean Chemical Engineering Research</i> , 2015, 53, 565-569.	0.2	8
60	Soft chemically synthesized zinc oxide micro-flowers for the enhanced photocatalytic properties and their analytical determination. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 192-198.	5.8	7
61	Photocatalytic activity and statistical determination of ball-shaped zinc oxide NPs with methylene blue dye. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 536-542.	1.6	7
62	Application of multi-dimensional (0D, 1D, 2D) nanostructures for the cytological evaluation of cancer cells and their bacterial response. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123953.	4.7	7
63	Microwave plasma-assisted silicon nanoparticles: cytotoxic, molecular, and numerical responses against cancer cells. <i>RSC Advances</i> , 2019, 9, 13336-13347.	3.6	7
64	The development of cobalt oxide nanoparticles based electrode to elucidate the rapid sensing of nitrophenol. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 265, 114994.	3.5	7
65	Properties of Empty Fruit Bunch Oil Palm (<i>Elaeis guineensis</i>) Composite Boards at Different Densities and Resin Contents. <i>Journal of Plant Sciences</i> , 2015, 10, 179-190.	0.2	7
66	Wet chemically synthesized catalytic nanorods for the deactivation of thymol blue and their statistical analytical applications. <i>Ceramics International</i> , 2015, 41, 3722-3730.	4.8	6
67	Phorate triggers oxidative stress and mitochondrial dysfunction to enhance micronuclei generation and DNA damage in human lymphocytes. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 1411-1417.	3.8	6
68	Silicon nanoparticles: a new and enhanced operational material for nitrophenol sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17084-17099.	2.2	6
69	Statistical Analytical Determination of Miniature Zinc Oxide Nanoclusters for Photodegradation of Methylene Red Dye. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 1-7.	0.4	6
70	Zinc Oxide Nanoparticles: Mechanism(s) of Cell Death Induced in Human Epidermoid Larynx Cell Line (HEp-2). <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 573-582.	0.4	6
71	Durability Performance of <i>Gigantochloa scortechinii</i> Through Laboratory Fungal Decay Tests. <i>Research Journal of Microbiology</i> , 2006, 1, 198-202.	0.2	6
72	Template Free Synthesis of Copper Oxide Nanoparticles Prepared via Precipitation Process. <i>Asian Journal of Chemistry</i> , 2016, 28, 2622-2626.	0.3	5

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73	An improved method of DNA preparation for PCR-based detection of Brucella in raw camel milk samples from Riyadh region and its comparison with immunological methods. Journal of Food Safety, 2018, 38, e12381.	2.3	5
74	Simulation of Nano Carbon Tube (NCT) in Thermal Interface Material for Electronic Packaging Application by Using CFD Software. Materials Science Forum, 0, 803, 337-342.	0.3	4
75	Biophysical Interactions of Novel Oleic Acid Conjugate and its Anticancer Potential in HeLa Cells. Journal of Fluorescence, 2015, 25, 519-525.	2.5	4
76	Energy Dispersive X-Ray Analysis on Preservatives Treated Tropical Bamboo Species. Journal of Biological Sciences, 2005, 5, 837-841.	0.3	4
77	Physical Characteristics, Anatomy and Properties of Managed Gigantochloa scortechinii Natural Bamboo Stands. Journal of Plant Sciences, 2006, 1, 144-153.	0.2	4
78	Physical, Mechanical and Morphological Studies on Bio-composite Mixture of Oil Palm Frond and Kenaf Bast Fibers. Journal of Plant Sciences, 2015, 11, 22-30.	0.2	4
79	Penetration Class and Net Dry Salt Retention of Ammoniacal Copper Quaternary, Borax Boric Acid and Copper Chrome Arsenic in 2 and 4 Year-old Bamboo Gigantochloa scortechinii. Journal of Biological Sciences, 2005, 5, 511-518.	0.3	4
80	Synthesis, spectral and thermo-kinetics explorations of Schiff-base derived metal complexes. Open Chemistry, 2020, 18, 1304-1315.	1.9	4
81	Photoconducting Properties of a Unit Nanostructure of ZnO Assembled Between Microelectrodes. Journal of Nanoscience and Nanotechnology, 2012, 12, 2406-2411.	0.9	3
82	Comparison between Thermal Interface Materials Made of Nano Carbon Tube (NCT) with Gad Pad 2500 in Term of Junction Temperature by Using CFD Software, Fluent & TM. Materials Science Forum, 0, 803, 243-249.	0.3	3
83	Role of Nanostructures for Anti-proliferation of Bacteria and Their Quantitative Study Validated by Statistical Analysis. Journal of Pharmaceutical Innovation, 2014, 9, 282-290.	2.4	3
84	Zirconium(IV) phosphosulphosalicylate-based ion selective membrane electrode for potentiometric determination of Pb(II) ions. Arabian Journal of Chemistry, 2019, 12, 1839-1847.	4.9	3
85	Quantization of SnO2 dots: Apoptosis and intrinsic effect of quantum dots for myoblast cancer cells with caspase 3/7 genes. Ceramics International, 2020, 46, 6383-6395.	4.8	3
86	Molybdenum rods assembled with nanosheets: a high catalytic material for phenol sensing. Materials Today Chemistry, 2020, 18, 100347.	3.5	3
87	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 6-11.	0.5	3
88	Properties of Oil-Cured Cultivated Bambusa vulgaris. International Journal of Agricultural Research, 2007, 2, 820-825.	0.1	3
89	Cytotoxic, genetic and statistical analytical evaluation of functionalized CNTs with C2C12 cells. Vacuum, 2018, 152, 348-357.	3.5	2
90	Formation of composite nanostructures with an effective hydrazine sensor and their chemical approach. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113851.	2.7	2

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91	Thermal and Spectroscopic Studies of Transition Metal Complexes with Dihydrobis(2-Mercaptobenzothiazolyl)borate. <i>Asian Journal of Chemistry</i> , 2013, 25, 10386-10392.	0.3	1
92	Changes in Colour, Strength and Chemical Properties of Oil Heat Treated 18-Years Old Planted <i>Acacia mangium</i> . <i>International Journal of Biology</i> , 2017, 9, 12.	0.2	1
93	Study on the microstructure properties of a tropical bamboo species by scanning electron and transmission electron microscopes. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
94	GC-MS Analysis and Evaluation of Antimicrobial, Free Radical Scavenging and In Vitro Cytotoxic Activities of the Methanolic Extract of <i>Rheum Undulatum</i> . <i>Science of Advanced Materials</i> , 2012, 4, 1238-1246.	0.7	1
95	Durability Assessment of Preservatives Treated <i>Bambusa vulgaris</i> in Unsterile Soil Burial Tests. <i>Research Journal of Microbiology</i> , 2007, 2, 504-508.	0.2	1
96	General and facile purification of dye-labeled oligonucleotides by pH-controlled extraction. <i>BioTechniques</i> , 2018, 64, 21-23.	1.8	0
97	ENHANCING MECHANICAL PROPERTIES OF RHIZOPHORA APICULATA THROUGH ENGINEERED LAMINATED BOARDS. <i>Agriculture and Forestry</i> , 2020, 66, .	0.1	0
98	<i>Tectona grandis</i>: Examine an Ultrastructure on Cultivated Teakwood due to the Scanning Electron Microscopy Enhanced by Heat Treatment. <i>Key Engineering Materials</i> , 0, 908, 92-104.	0.4	0