

# 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	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
2	Syngas Production via CO <sub>2</sub> Reforming of Methane over SrNiO <sub>3</sub> and CeNiO <sub>3</sub> Perovskites. <i>Energies</i> , 2021, 14, 2928.	3.1	16
3	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
4	Formation of composite nanostructures with an effective hydrazine sensor and their chemical approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113851.	2.7	2
5	Quantization of SnO <sub>2</sub> dots: Apoptosis and intrinsic effect of quantum dots for myoblast cancer cells with caspase 3/7 genes. <i>Ceramics International</i> , 2020, 46, 6383-6395.	4.8	3
6	Rapid sensing response for phenol with CuO nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125424.	4.7	12
7	Molybdenum rods assembled with nanosheets: a high catalytic material for phenol sensing. <i>Materials Today Chemistry</i> , 2020, 18, 100347.	3.5	3
8	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
9	Plasma-Treated Flammulina velutipes-Derived Extract Showed Anticancer Potential in Human Breast Cancer Cells. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8395.	2.5	9
10	Synthesis of silver nanoparticles decorated on reduced graphene oxide nanosheets and their electrochemical sensing towards hazardous 4-nitrophenol. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11927-11937.	2.2	33
11	Cytotoxicity and cell death induced by engineered nanostructures (quantum dots and nanoparticles) in human cell lines. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 325-338.	2.6	24
12	Dual role of oxidative stress-JNK activation in autophagy and apoptosis induced by nickel oxide nanoparticles in human cancer cells. <i>Free Radical Biology and Medicine</i> , 2020, 153, 173-186.	2.9	26
13	Synthesis, spectral and thermo-kinetics explorations of Schiff-base derived metal complexes. <i>Open Chemistry</i> , 2020, 18, 1304-1315.	1.9	4
14	ENHANCING MECHANICAL PROPERTIES OF RHIZOPHORA APICULATA THROUGH ENGINEERED LAMINATED BOARDS. <i>Agriculture and Forestry</i> , 2020, 66, .	0.1	0
15	Synthesis of NiO@CeO <sub>2</sub> nanocomposite for electrochemical sensing of perilous 4-nitrophenol. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17643-17653.	2.2	22
16	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
17	Nanorods of ZnO: An effective hydrazine sensor and their chemical properties. <i>Vacuum</i> , 2019, 165, 290-296.	3.5	15
18	Microwave plasma-assisted silicon nanoparticles: cytotoxic, molecular, and numerical responses against cancer cells. <i>RSC Advances</i> , 2019, 9, 13336-13347.	3.6	7

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19	Study on the microstructure properties of a tropical bamboo species by scanning electron and transmission electron microscopes. AIP Conference Proceedings, 2019, , .	0.4	1
20	<p>Gold quantum dots impair the tumorigenic potential of glioma stem-like cells via &beta;-catenin downregulation in vitro</p>. International Journal of Nanomedicine, 2019, Volume 14, 1131-1148.	6.7	16
21	Phorate triggers oxidative stress and mitochondrial dysfunction to enhance micronuclei generation and DNA damage in human lymphocytes. Saudi Journal of Biological Sciences, 2019, 26, 1411-1417.	3.8	6
22	Green biosynthesis of silver nanoparticles using Torreya nucifera and their antibacterial activity. Arabian Journal of Chemistry, 2019, 12, 1722-1732.	4.9	50
23	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
24	Antibacterial activity of trimetal (CuZnFe) oxide nanoparticles. International Journal of Nanomedicine, 2018, Volume 13, 77-87.	6.7	36
25	Cytotoxic, genetic and statistical analytical evaluation of functionalized CNTs with C2C12 cells. Vacuum, 2018, 152, 348-357.	3.5	2
26	Copper doping enhanced the oxidative stressâ€‘mediated cytotoxicity of TiO<sub>2</sub> nanoparticles in A549 cells. Human and Experimental Toxicology, 2018, 37, 496-507.	2.2	21
27	An improved method of DNA preparation for PCRâ€‘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
28	Nanocubic magnesium oxide: Towards hydrazine sensing. Vacuum, 2018, 155, 682-688.	3.5	14
29	Hematite iron oxide nanoparticles: apoptosis of myoblast cancer cells and their arithmetical assessment. RSC Advances, 2018, 8, 24750-24759.	3.6	52
30	General and facile purification of dye-labeled oligonucleotides by pH-controlled extraction. BioTechniques, 2018, 64, 21-23.	1.8	0
31	Functionalization of anti-Brucella antibody on ZnO-NPs and their deposition on aluminum sheet towards developing a sensor for the detection of Brucella. Vacuum, 2017, 146, 592-598.	3.5	11
32	MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor. Vacuum, 2017, 146, 623-632.	3.5	9
33	Silica-supported NiO nanocomposites prepared via a solâ€‘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
34	Evaluation of cytotoxic responses of raw and functionalized multi-walled carbon nanotubes in human breast cancer (MCF-7) cells. Vacuum, 2017, 146, 578-585.	3.5	11
35	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. Acta Microbiologica Et Immunologica Hungarica, 2017, 64, 203-216.	0.8	13
36	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

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37	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
38	Treatment of oral hyperpigmentation and gummy smile using lasers and role of plasma as a novel treatment technique in dentistry: An introductory review. <i>Oncotarget</i> , 2017, 8, 20496-20509.	1.8	22
39	Changes in Colour, Strength and Chemical Properties of Oil Heat Treated 18-Years Old Planted Acacia mangium. <i>International Journal of Biology</i> , 2017, 9, 12.	0.2	1
40	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
41	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
42	Template Free Synthesis of Copper Oxide Nanoparticles Prepared via Precipitation Process. <i>Asian Journal of Chemistry</i> , 2016, 28, 2622-2626.	0.3	5
43	Antibacterial studies and statistical design set data of quasi zinc oxide nanostructures. <i>RSC Advances</i> , 2016, 6, 32328-32339.	3.6	50
44	Genotoxicity of ferric oxide nanoparticles in <i>Raphanus sativus</i> : Deciphering the role of signaling factors, oxidative stress and cell death. <i>Journal of Environmental Sciences</i> , 2016, 47, 49-62.	6.1	28
45	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , 2016, 36, 1284-1293.	2.8	47
46	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. <i>RSC Advances</i> , 2016, 6, 26111-26120.	3.6	43
47	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016, 11, 6-11.	0.5	3
48	Anticoccidial and antioxidant activities of zinc oxide nanoparticles on <i>Eimeria papillata</i> -induced infection in the jejunum. <i>International Journal of Nanomedicine</i> , 2015, 10, 1961.	6.7	44
49	Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their applications for statistical analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 69, 101-108.	2.7	20
50	Biophysical Interactions of Novel Oleic Acid Conjugate and its Anticancer Potential in HeLa Cells. <i>Journal of Fluorescence</i> , 2015, 25, 519-525.	2.5	4
51	Impact of gold nanoparticles on brain of mice infected with <i>Schistosoma mansoni</i> . <i>Parasitology Research</i> , 2015, 114, 3711-3719.	1.6	31
52	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
53	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 73-81.	5.0	55
54	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

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55	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
56	Physical, Mechanical and Morphological Studies on Bio-composite Mixture of Oil Palm Frond and Kenaf Bast Fibers. <i>Journal of Plant Sciences</i> , 2015, 11, 22-30.	0.2	4
57	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
58	Reactive Oxygen Species Mediated Bacterial Biofilm Inhibition via Zinc Oxide Nanoparticles and Their Statistical Determination. <i>PLoS ONE</i> , 2014, 9, e111289.	2.5	269
59	Facile Growth of Barium Oxide Nanorods: Structural and Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5342-5346.	0.9	8
60	Role of Nanostructures for Anti-proliferation of Bacteria and Their Quantitative Study Validated by Statistical Analysis. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 282-290.	2.4	3
61	ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 267-276.	5.0	254
62	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
63	Statistical analysis of gold nanoparticle-induced oxidative stress and apoptosis in myoblast (C2C12) cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 664-672.	5.0	65
64	Poly <i>o</i> -Toluidine Zirconium(IV) Iodosulfosalicylate-Based Ion-Selective Membrane Electrode for Potentiometric Determination of Cr(III) Ions and Its Analytical Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 14897-14903.	3.7	12
65	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
66	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 211-217.	5.0	48
67	Synthesis of thermally stable monodispersed Au@SnO <sub>2</sub> core-shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. <i>Analytical Methods</i> , 2013, 5, 1456.	2.7	39
68	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
69	ZnO Nanoparticles Induce Oxidative Stress in Cloudman S91 Melanoma Cancer Cells. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 441-449.	1.1	86
70	ZnO Nanoparticles Induces Cell Death in Malignant Human T98G Gliomas, KB and Non-Malignant HEK Cells. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1181-1189.	1.1	85
71	Applications of ZnO Nanoflowers as Antimicrobial Agents for <i>Escherichia coli</i> and Enzyme-Free Glucose Sensor. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1794-1802.	1.1	38
72	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

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73	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
74	Platinum Quantum Dots and Their Cytotoxic Effect Towards Myoblast Cancer Cells ( <i>C2C12</i> ). <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 424-431.	1.1	26
75	Photoconducting Properties of a Unit Nanostructure of ZnO Assembled Between Microelectrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2406-2411.	0.9	3
76	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. <i>Biomass and Bioenergy</i> , 2012, 39, 227-236.	5.7	62
77	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
78	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
79	Fabrication and growth mechanism of ZnO nanostructures and their cytotoxic effect on human brain tumor U87, cervical cancer HeLa, and normal HEK cells. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 431-442.	2.6	99
80	Microbial synthesis of gold nanoparticles using the fungus <i>Penicillium brevicompactum</i> and their cytotoxic effects against mouse mayo blast cancer C2C12 cells. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 617-630.	3.6	180
81	Fabrication, characterization and growth mechanism of heterostructured zinc oxide nanostructures via solution method. <i>Current Applied Physics</i> , 2011, 11, 334-340.	2.4	50
82	Antibacterial activity of ZnO nanoparticles prepared via non-hydrolytic solution route. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1917-1925.	3.6	182
83	Formation of ZnO Micro-Flowers Prepared via Solution Process and their Antibacterial Activity. <i>Nanoscale Research Letters</i> , 2010, 5, 1675-1681.	5.7	124
84	A simple method to deposit palladium doped SnO <sub>2</sub> thin films using plasma enhanced chemical vapor deposition technique. <i>Review of Scientific Instruments</i> , 2010, 81, 113903.	1.3	8
85	Controlled Synthesis of Zinc Oxide Nanoneedles and Their Transformation to Microflowers. <i>Science of Advanced Materials</i> , 2010, 2, 35-42.	0.7	25
86	Evaluation on some finishing properties of oil palm plywood. <i>European Journal of Wood and Wood Products</i> , 2008, 66, 5-10.	2.9	31
87	Properties of Laminated Veneer Lumbers from Oil Palm Trunks. <i>Journal of Plant Sciences</i> , 2008, 3, 255-259.	0.2	8
88	Properties of Oil-Cured Cultivated <i>Bambusa vulgaris</i> . <i>International Journal of Agricultural Research</i> , 2007, 2, 820-825.	0.1	3
89	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
90	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

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91	Physical Characteristics, Anatomy and Properties of Managed <i>Gigantochloa scortechinii</i> Natural Bamboo Stands. <i>Journal of Plant Sciences</i> , 2006, 1, 144-153.	0.2	4
92	Fungal Colonisation and Decay in Tropical Bamboo Species. <i>Journal of Applied Sciences</i> , 2005, 5, 897-902.	0.3	8
93	Energy Dispersive X-Ray Analysis on Preservatives Treated Tropical Bamboo Species. <i>Journal of Biological Sciences</i> , 2005, 5, 837-841.	0.3	4
94	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 <i>Gigantochloa scortechinii</i> . <i>Journal of Biological Sciences</i> , 2005, 5, 511-518.	0.3	4
95	Strength and Durability of Bamboo Treated Through an Oil-curing Process. <i>Journal of Biological Sciences</i> , 2004, 4, 658-663.	0.3	15
96	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 <sup>TM</sup> . <i>Materials Science Forum</i> , 0, 803, 243-249.	0.3	3
97	Simulation of Nano Carbon Tube (NCT) in Thermal Interface Material for Electronic Packaging Application by Using CFD Software. <i>Materials Science Forum</i> , 0, 803, 337-342.	0.3	4
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