Rosfarizan Mohamad

List of Publications by Year
in descending order

113 papers	5,804 citations	101543 36 h-index	82547 72 g-index
113 all docs	113 docs citations	113 times ranked	7129 citing authors

#	Article	IF	Citations
1	Green Biosynthesis and Characterization of Magnetic Iron Oxide (Fe3O4) Nanoparticles Using Seaweed (Sargassum muticum) Aqueous Extract. Molecules, 2013, 18, 5954-5964.	3.8	481
2	Green biosynthesis and characterization of zinc oxide nanoparticles using brown marine macroalga Sargassum muticum aqueous extract. Materials Letters, 2014, 116, 275-277.	2.6	431
3	Nanoparticles Biosynthesized by Fungi and Yeast: A Review of Their Preparation, Properties, and Medical Applications. Molecules, 2015, 20, 16540-16565.	3.8	335
4	Microbial synthesis of zinc oxide nanoparticles and their potential application as an antimicrobial agent and a feed supplement in animal industry: a review. Journal of Animal Science and Biotechnology, 2019, 10, 57.	5.3	325
5	Production and Status of Bacterial Cellulose in Biomedical Engineering. Nanomaterials, 2017, 7, 257.	4.1	208
6	Cytotoxic effect of magnetic iron oxide nanoparticles synthesized via seaweed aqueous extract. International Journal of Nanomedicine, 2014, 9, 2479.	6.7	198
7	Biosynthesis of Silver Nanoparticles Using Brown Marine Macroalga, Sargassum Muticum Aqueous Extract. Materials, 2013, 6, 5942-5950.	2.9	157
8	Biosynthesis of ZnO Nanoparticles by a New Pichia kudriavzevii Yeast Strain and Evaluation of Their Antimicrobial and Antioxidant Activities. Molecules, 2017, 22, 872.	3.8	155
9	Production and characterization of a bioflocculant produced by Aspergillus flavus. Bioresource Technology, 2013, 127, 489-493.	9.6	139
10	Antioxidant, Antiproliferative, and Antiangiogenesis Effects of Polyphenol-Rich Seaweed (Sargassum muticum). BioMed Research International, 2013, 2013, 1-9.	1.9	123
11	Silver Nanoparticles Biosynthesized Using Achillea biebersteinii Flower Extract: Apoptosis Induction in MCF-7 Cells via Caspase Activation and Regulation of Bax and Bcl-2 Gene Expression. Molecules, 2015, 20, 2693-2706.	3.8	120
12	Effect of annealing temperature on antimicrobial and structural properties of bio-synthesized zinc oxide nanoparticles using flower extract of Anchusa italica. Journal of Photochemistry and Photobiology B: Biology, 2016, 161, 441-449.	3.8	119
13	Improvement of medium composition for heterotrophic cultivation of green microalgae, Tetraselmis suecica, using response surface methodology. Biochemical Engineering Journal, 2011, 53, 187-195.	3.6	114
14	Cytotoxic Effects of Biosynthesized Zinc Oxide Nanoparticles on Murine Cell Lines. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-11.	1.2	105
15	Green Synthesis of Silver Nanoparticles using Achillea biebersteinii Flower Extract and Its Anti-Angiogenic Properties in the Rat Aortic Ring Model. Molecules, 2014, 19, 4624-4634.	3.8	101
16	Hydrogel beads bio-nanocomposite based on Kappa-Carrageenan and green synthesized silver nanoparticles for biomedical applications. International Journal of Biological Macromolecules, 2017, 104, 423-431.	7.5	101
17	Eco-Friendly Formulated Zinc Oxide Nanoparticles: Induction of Cell Cycle Arrest and Apoptosis in the MCF-7 Cancer Cell Line. Genes, 2017, 8, 281.	2.4	101
18	Green Synthesis of Zinc Oxide Nanoparticles for Enhanced Adsorption of Lead Ions from Aqueous Solutions: Equilibrium, Kinetic and Thermodynamic Studies. Molecules, 2017, 22, 831.	3.8	100

#	Article	IF	Citations
19	Anti-Angiogenesis Effect of Biogenic Silver Nanoparticles Synthesized Using Saliva officinalis on Chick Chorioalantoic Membrane (CAM). Molecules, 2014, 19, 13498-13508.	3.8	96
20	Green synthesis and characterization of gold nanoparticles using the marine macroalgae Sargassum muticum. Research on Chemical Intermediates, 2015, 41, 5723-5730.	2.7	92
21	ZnO-Ag core shell nanocomposite formed by green method using essential oil of wild ginger and their bactericidal and cytotoxic effects. Applied Surface Science, 2016, 384, 517-524.	6.1	86
22	Biosynthesis of zinc oxide nanoparticles by cell-biomass and supernatant of Lactobacillus plantarum TA4 and its antibacterial and biocompatibility properties. Scientific Reports, 2020, 10, 19996.	3.3	85
23	Green Synthesis of Gold Nanoparticles Using Sumac Aqueous Extract and Their Antioxidant Activity. Materials Research, 2017, 20, 264-270.	1.3	77
24	Green synthesis palladium nanoparticles mediated by white tea (Camellia sinensis) extract with antioxidant, antibacterial, and antiproliferative activities toward the human leukemia (MOLT-4) cell line. International Journal of Nanomedicine, 2017, Volume 12, 8841-8853.	6.7	72
25	Green Microwave-Assisted Combustion Synthesis of Zinc Oxide Nanoparticles with Citrullus colocynthis (L.) Schrad: Characterization and Biomedical Applications. Molecules, 2017, 22, 301.	3.8	68
26	Lovastatin Production byAspergillus terreusUsing Agro-Biomass as Substrate in Solid State Fermentation. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-11.	3.0	63
27	A Review of the Biomedical Applications of Zerumbone and the Techniques for Its Extraction from Ginger Rhizomes. Molecules, 2017, 22, 1645.	3.8	58
28	Sustainable microbial cell nanofactory for zinc oxide nanoparticles production by zinc-tolerant probiotic Lactobacillus plantarum strain TA4. Microbial Cell Factories, 2020, 19, 10.	4.0	58
29	Green synthesis, characterization, and anticancer activity of hyaluronan/zinc oxide nanocomposites. OncoTargets and Therapy, 2016, Volume 9, 4549-4559.	2.0	55
30	Comparative studies of versatile extracellular proteolytic activities of lactic acid bacteria and their potential for extracellular amino acid productions as feed supplements. Journal of Animal Science and Biotechnology, 2019, 10, 15.	5.3	50
31	High performance enzymatic synthesis of oleyl oleate using immobilised lipase from Candida antartica. Electronic Journal of Biotechnology, 2005, 8, 291-298.	2.2	49
32	Comparative analyses on medium optimization usingone-factor-at-a-time, response surface methodology, and artificial neural network for lysineâ€“methionine biosynthesis byPediococcus pentosaceusRF-1. Biotechnology and Biotechnological Equipment, 2017, 31, 935-947.	1.3	47
33	Optimization and kinetic study on the synthesis of palm oil ester using Lipozyme TL IM. Journal of Molecular Catalysis B: Enzymatic, 2013, 85-86, 214-219.	1.8	46
34	Extracellular Proteolytic Activity and Amino Acid Production by Lactic Acid Bacteria Isolated from Malaysian Foods. International Journal of Molecular Sciences, 2019, 20, 1777.	4.1	46
35	Antibacterial Potential of Biosynthesized Zinc Oxide Nanoparticles against Poultry-Associated Foodborne Pathogens: An In Vitro Study. Animals, 2021, 11, 2093.	2.3	45
36	Facile biosynthesis and characterization of palm pollen stabilized ZnO nanoparticles. Materials Letters, 2015, 148, 106-109.	2.6	40

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37	In vitro molecular study of wound healing using biosynthesized bacteria nanocellulose/silver nanocomposite assisted by bioinformatics databases. International Journal of Nanomedicine, 2018, Volume 13, 5097-5112.	6.7	37
38	Characterization of Headspace Volatile Flavor Compounds Formed During Kefir Production: APplication of Solid Phase MicroextractioN. International Journal of Food Properties, 2009, 12, 808-818.	3.0	36
39	Microbial Mediated Synthesis of Silver Nanoparticles by Lactobacillus Plantarum TA4 and its Antibacterial and Antioxidant Activity. Applied Sciences (Switzerland), 2020, 10, 6973.	2.5	36
40	Fatty Acid Profile, Cholesterol and Oxidative Status in Broiler Chicken Breast Muscle Fed Different Dietary Oil Sources and Calcium Levels. South African Journal of Animal Sciences, 2015, 45, 153.	0.5	35
41	Molecular study of wound healing after using biosynthesized BNC/Fe₃O₄ nanocomposites assisted with a bioinformatics approach. International Journal of Nanomedicine, 2018, Volume 13, 2955-2971.	6.7	35
42	Comparative Analyses of Response Surface Methodology and Artificial Neural Network on Medium Optimization forTetraselmissp. FTC209 Grown under Mixotrophic Condition. Scientific World Journal, The, 2013, 2013, 1-14.	2.1	34
43	Evaluation of commercial soy sauce koji strains of Aspergillus oryzae for Î³-aminobutyric acid (GABA) production. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1387-1395.	3.0	33
44	Influence of different sources of oil on performance, meat quality, gut morphology, ileal digestibility and serum lipid profile in broilers. Journal of Applied Animal Research, 2018, 46, 479-485.	1.2	33
45	Optimization of Enzymatic Synthesis of Palm-based Kojic Acid Ester Using Response Surface Methodology. Journal of Oleo Science, 2009, 58, 503-510.	1.4	30
46	Improved Protocol for the Preparation of Axenic Culture and Adaptation to Heterotrophic Cultivation. Open Biotechnology Journal, 2010, 4, 36-46.	1.2	29
47	Nutritional Requirements for the Improvement of Growth and Sporulation of Several Strains ofMonascus purpureuson Solid State Cultivation. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-9.	3.0	28
48	Kinetics and modeling of microalga Tetraselmis sp. FTC 209 growth with respect to its adaptation toward different trophic conditions. Biochemical Engineering Journal, 2014, 88, 30-41.	3.6	28
49	Characterization of Pullulanase Type II from Bacillus cereus H1.5. American Journal of Biochemistry and Biotechnology, 2009, 5, 170-179.	0.4	28
50	An Improved Nanoemulsion Formulation Containing Kojic Monooleate: Optimization, Characterization and In Vitro Studies. Molecules, 2020, 25, 2616.	3.8	27
51	Screening, Isolation and Selection of Cellulolytic Fungi from Oil Palm Empty Fruit Bunch Fibre. Biotechnology, 2010, 10, 108-113.	0.1	27
52	Large Scale Production of Liquid Wax Ester by Immobilized Lipase. Journal of Oleo Science, 2005, 54, 203-209.	1.4	26
53	Sumac Silver Novel Biodegradable Nano Composite for Bio-Medical Application: Antibacterial Activity. Molecules, 2015, 20, 12946-12958.	3.8	26
54	Optimization of cultural conditions for polygalacturonase production by a newly isolated Aspergillus fumigatus R6 capable of retting kenaf. Industrial Crops and Products, 2017, 97, 175-183.	5.2	26

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55	Lipase-catalyzed production of medium-chain triacylglycerols from palm kernel oil distillate: Optimization using response surface methodology. European Journal of Lipid Science and Technology, 2007, 109, 107-119.	1.5	25
56	Biosynthesis of high molecular weight hyaluronic acid by Streptococcus zooepidemicus using oxygen vector and optimum impeller tip speed. Journal of Bioscience and Bioengineering, 2012, 114, 286-291.	2.2	25
57	Lovastatin-Enriched Rice Straw Enhances Biomass Quality and Suppresses Ruminal Methanogenesis. BioMed Research International, 2013, 2013, 1-13.	1.9	25
58	Effects of degree of substitution and irradiation doses on the properties of hydrogel prepared from carboxymethyl-sago starch and polyethylene glycol. Carbohydrate Polymers, 2021, 252, 117224.	10.2	25
59	Optimisation and Characterisation of Lipase-Catalysed Synthesis of a Kojic Monooleate Ester in a Solvent-Free System by Response Surface Methodology. PLoS ONE, 2015, 10, e0144664.	2.5	24
60	Effect of Medium Composition and Culture Condition on the Production of Bacteriocin-Like Inhibitory Substances (BLIS) byLactobacillus ParacaseiLA07, a Strain Isolated from Budu. Biotechnology and Biotechnological Equipment, 2011, 25, 2652-2657.	1.3	23
61	Enhancement of Red Pigment Production by Monascus purpureus FTC 5391 through Retrofitting of Helical Ribbon Impeller in Stirred-Tank Fermenter. Food and Bioprocess Technology, 2012, 5, 80-91.	4.7	23
62	Effects of dietary oil sources, calcium and phosphorus levels on growth performance, carcass characteristics and bone quality of broiler chickens. Journal of Applied Animal Research, 2017, 45, 423-429.	1.2	23
63	Improved mannan-degrading enzymesâ€™ production by Aspergillus niger through medium optimization. New Biotechnology, 2011, 28, 146-152.	4.4	22
64	Fatty acid composition, fat deposition, lipogenic gene expression and performance of broiler fed diet supplemented with different sources of oil. Animal Science Journal, 2017, 88, 1406-1413.	1.4	22
65	Enhancement of Versatile Extracellular Cellulolytic and Hemicellulolytic Enzyme Productions by Lactobacillus plantarum RI 11 Isolated from Malaysian Food Using Renewable Natural Polymers. Molecules, 2020, 25, 2607.	3.8	22
66	Apoptosis Induction in Human Leukemia Cell Lines by Gold Nanoparticles Synthesized Using the Green Biosynthetic Approach. Journal of Nanomaterials, 2015, 2015, 1-10.	2.7	20
67	Effects of MeJA and SA elicitation on secondary metabolic activity, antioxidant content and callogenesis in Phyllanthus pulcher. Revista Brasileira De Botanica, 2015, 38, 265-272.	1.3	19
68	Lovastatin inAspergillus terreus: Fermented Rice Straw Extracts Interferes with Methane Production and Gene Expression inMethanobrevibacter smithii. BioMed Research International, 2013, 2013, 1-10.	1.9	18
69	Influence of Cytokinins in Combination with GA3on Shoot Multiplication and Elongation of Tea Clone Iran 100 (Camellia sinensis(L.) O. Kuntze). Scientific World Journal, The, 2014, 2014, 1-9.	2.1	18
70	Biotransformation of various carbon sources to kojic acid by cell-bound enzyme system of A. flavus Link 44-1. Biochemical Engineering Journal, 2007, 35, 203-209.	3.6	17
71	Comparative Study of Extracellular Proteolytic, Cellulolytic, and Hemicellulolytic Enzyme Activities and Biotransformation of Palm Kernel Cake Biomass by Lactic Acid Bacteria Isolated from Malaysian Foods. International Journal of Molecular Sciences, 2019, 20, 4979.	4.1	17
72	Optimisation study of large-scale enzymatic synthesis of oleyl oleate, a liquid wax ester, by response surface methodology. Journal of Chemical Technology and Biotechnology, 2006, 81, 374-380.	3.2	16

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73	Effect of various pretreatments of oil palm empty fruit bunch fibres for subsequent use as substrate on the performance of cellulase production by Aspergillus terreus. BioResources, 2011, 6, 291-307.	1.0	16
74	Kinetics and Optimization of Lipophilic Kojic Acid Derivative Synthesis in Polar Aprotic Solvent Using Lipozyme RMIM and Its Rheological Study. Molecules, 2018, 23, 501.	3.8	15
75	Enzymatic synthesis of kojic acid esters and their potential industrial applications. Chemical Papers, 2013, 67, .	2.2	14
76	Bioprocess Strategy of Haematococcus lacustris for Biomass and Astaxanthin Production Keys to Commercialization: Perspective and Future Direction. Fermentation, 2022, 8, 179.	3.0	14
77	Optimized medium via statistical approach enhanced threonine production by Pediococcus pentosaceus TL-3 isolated from Malaysian food. Microbial Cell Factories, 2019, 18, 125.	4.0	13
78	Improvements of GC and HPLC analyses in solvent (acetone-butanol-ethanol) fermentation byClostridium saccharobutylicum using a mixture of starch and glycerol as carbon source. Biotechnology and Bioprocess Engineering, 2006, 11, 293-298.	2.6	12
79	Enhanced production of xylanase by recombinant Escherichia coli DH5Î± through optimization of medium composition using response surface methodology. Annals of Microbiology, 2010, 60, 279-285.	2.6	12
80	The influence of different modes of bioreactor operation on the efficiency of phenol degradation by Rhodococcus UKMP-5M. Rendiconti Lincei, 2016, 27, 749-760.	2.2	12
81	Extracellular Xylanopectinolytic Enzymes by Bacillus subtilis ADI1 from EFBâ€™s Compost. International Scholarly Research Notices, 2017, 2017, 1-7.	0.9	12
82	Biomedical properties of edible seaweed in cancer therapy and chemoprevention trials: a review. Natural Product Communications, 2013, 8, 1811-20.	0.5	12
83	Kinetics of Enzymatic Synthesis of Liquid Wax Ester from Oleic Acid and Oleyl Alcohol. Journal of Oleo Science, 2010, 59, 127-134.	1.4	11
84	Cyclodextrin glycosyltransferase biosynthesis improvement by recombinantLactococcus lactisNZ:NSP:CGT: medium formulation and culture condition optimization. Biotechnology and Biotechnological Equipment, 2015, 29, 555-563.	1.3	11
85	Nanosized silverâ€“palm pollen nanocomposite, green synthesis, characterization and antimicrobial activity. Research on Chemical Intermediates, 2016, 42, 1571-1581.	2.7	11
86	Passage time, apparent metabolisable energy and ileal amino acids digestibility of treated palm kernel cake in broilers under the hot and humid tropical climate. Italian Journal of Animal Science, 2020, 19, 194-202.	1.9	11
87	Biochemical and molecular identification of Enterococcus spp. from red pitaya. Process Biochemistry, 2014, 49, 563-568.	3.7	10
88	Interrelations of Synthesis Method, Polyethylene Glycol Coating, Physico-Chemical Characteristics, and Antimicrobial Activity of Silver Nanoparticles. Nanomaterials, 2020, 10, 2475.	4.1	10
89	Biomedical Properties of Edible Seaweed in Cancer Therapy and Chemoprevention Trials: A Review. Natural Product Communications, 2013, 8, 1934578X1300801.	0.5	9
90	Influence of biofilm-forming lactic acid bacteria against methicillin-resistant Staphylococcus aureus (MRSA S547). Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 1107-1115.	1.2	9

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91	Rapid Evaluation and Optimization of Medium Components Governing Tryptophan Production by Pediococcus acidilactici TP-6 Isolated from Malaysian Food via Statistical Approaches. Molecules, 2020, 25, 779.	3.8	9
92	A refined medium to enhance the antimicrobial activity of postbiotic produced by Lactiplantibacillus plantarum RS5. Scientific Reports, 2021, 11, 7617.	3.3	9
93	Optimization of Milk-Based Medium for Efficient Cultivation ofBifidobacterium pseudocatenulatumG4 Using Face-Centered Central Composite-Response Surface Methodology. BioMed Research International, 2014, 2014, 1-10.	1.9	8
94	Encapsulation of Bifidobacterium pseudocatenulatum Strain G4 within Bovine Gelatin-Genipin-Sodium Alginate Combinations: Optimisation Approach Using Face Central Composition Design-Response Surface Methodology (FCCD-RSM). International Journal of Microbiology, 2019, 2019, 1-11.	2.3	8
95	Effect of Addition of PVA/PG to Oil-in-Water Nanoemulsion Kojic Monooleate Formulation on Droplet Size: Three-Factors Response Surface Optimization and Characterization. Cosmetics, 2020, 7, 73.	3.3	8
96	Enhancement of Extracellular Pullulanase Production by Raoultella planticola DSMZ 4617 Using Optimized Medium Based on Sago Starch. Open Biotechnology Journal, 2009, 3, 1-8.	1.2	8
97	Kinetics of Xylanase Fermentation by Recombinant Escherichia coli DH5Î± in Shake Flask Culture. American Journal of Biochemistry and Biotechnology, 2009, 5, 110-118.	0.4	7
98	Optimisation of Xylanaseâ€“Pectinase Cocktail Production with Bacillus amyloliquefaciens ADI2 Using a Low-Cost Substrate via Statistical Strategy. Fermentation, 2022, 8, 119.	3.0	7
99	Assessment of Monacolin in the Fermented Products UsingMonascus purpureusFTC5391. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-9.	3.0	6
100	Improved production of live cells of Lactobacillus rhamnosus by continuous cultivation using glucose-yeast extract medium. Journal of Microbiology, 2006, 44, 439-46.	2.8	6
101	Production of Thermostable T1 Lipase Using Agroindustrial Waste Medium Formulation. Catalysts, 2018, 8, 485.	3.5	5
102	The use of response surface methodology for enhanced production of a thermostable bacterial lipase in a novel yeast system. Preparative Biochemistry and Biotechnology, 2021, 51, 350-360.	1.9	5
103	Intracellular production of IFN-alpha 2b in Lactococcus lactis. Biotechnology Letters, 2014, 36, 581-585.	2.2	4
104	Bioprospecting microalgae with the capacity for inducing calcium carbonate biomineral precipitation. Asia-Pacific Journal of Chemical Engineering, 2022, 17, .	1.5	4
105	Pulp Enhancement of Oil Palm Empty Fruit Bunches (OPEFBs) via Biobleaching by Using Xylano-Pectinolytic Enzymes of Bacillus amyloliquefaciens ADI2. Molecules, 2021, 26, 4279.	3.8	3
106	Selection of Potential Fungi for Production of Cellulase-Poor Xylanase from Rice Straw. BioResources, 2015, 11, .	1.0	3
107	Potential of bioethanol production from Nypa fruticans sap by a newly isolated yeast Lachancea fermentati. Journal of Renewable and Sustainable Energy, 2012, 4, 033110.	2.0	2
108	Protein Produced by Bacillus subtilis ATCC21332 in the Presence of Cymbopogon flexuosus Essential Oil. Key Engineering Materials, 2013, 594-595, 370-377.	0.4	1

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109	Influence of Different Organic Waste Materials on Hardening of Micropropagated Tea (Camellia) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.3	1
110	Mitsuokella Jalaludinii Supplementation Improved Nutrient Utilization of Broilers Fed Low-Available Phosphorus Diet. Brazilian Journal of Poultry Science, 2021, 23, .	0.7	1
111	Green Synthesis Palladium Nanoparticles Mediated by White Tea (Camellia sinensis) Extract with Antioxidant, Antibacterial, and Antiproliferative Activities Toward the Human Leukemia (MOLT-4) Cell Line [Retraction]. International Journal of Nanomedicine, 2022, Volume 17, 1227-1228.	6.7	1
112	Modeling of Oxygen Transfer Correlations for Stirred Tank Bioreactor Agitated with Atypical Helical Ribbon Impeller. American Journal of Applied Sciences, 2009, 6, 848-856.	0.2	0
113	In vitro Kinetic Release Study, in vivo Hydration and Moisturizing Effect of Peel-off Oil-in-Water (O/W) Nanoemulsion Containing Kojic Monooleate for Topical Application. International Journal of Pharmaceutical Investigation, 2022, 12, 75-81.	0.3	0