

Aydin Berenjian

List of Publications by Citations

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132
papers

3,290
citations

28
h-index

53
g-index

135
ext. papers

4,183
ext. citations

3.7
avg, IF

6.03
L-index

#	Paper	IF	Citations
132	Prebiotics: Definition, Types, Sources, Mechanisms, and Clinical Applications. <i>Foods</i> , 2019 , 8,	4.9	336
131	Application of magnetic nanoparticles in smart enzyme immobilization. <i>Biotechnology Letters</i> , 2016 , 38, 223-33	3	223
130	Synthesis and Application of Amine Functionalized Iron Oxide Nanoparticles on Menaquinone-7 Fermentation: A Step towards Process Intensification. <i>Nanomaterials</i> , 2015 , 6,	5.4	188
129	Bioconcrete: next generation of self-healing concrete. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2591-602	5.7	170
128	Chitosan magnetic nanoparticles for drug delivery systems. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 492-509	9.4	97
127	Application of chitosan-based nanocarriers in tumor-targeted drug delivery. <i>Molecular Biotechnology</i> , 2015 , 57, 201-18	3	88
126	Iron oxide nanoparticles in modern microbiology and biotechnology. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 493-507	7.8	84
125	Efficient media for high menaquinone-7 production: response surface methodology approach. <i>New Biotechnology</i> , 2011 , 28, 665-72	6.4	74
124	Plant-Mediated Synthesis and Applications of Iron Nanoparticles. <i>Molecular Biotechnology</i> , 2018 , 60, 154-168	3	69
123	Magnetic immobilization of <i>Bacillus subtilis</i> natto cells for menaquinone-7 fermentation. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 173-80	5.7	68
122	Nattokinase: production and application. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 9199-206	5.7	68
121	Biomimetic synthesis of silver nanoparticles using microalgal secretory carbohydrates as a novel anticancer and antimicrobial. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2016 , 7, 015018	1.6	68
120	Recent advances in application of chitosan in fuel cells. <i>Sustainable Chemical Processes</i> , 2013 , 1, 16		61
119	A biotechnological perspective on the application of iron oxide nanoparticles. <i>Nano Research</i> , 2016 , 9, 2203-2225	10	60
118	Microbially induced calcium carbonate precipitation: a widespread phenomenon in the biological world. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 4693-4708	5.7	58
117	Green synthesized nanoclusters of ultra-small zero valent iron nanoparticles as a novel dye removing material. <i>Science of the Total Environment</i> , 2018 , 621, 1527-1532	10.2	56
116	Vitamin K series: current status and future prospects. <i>Critical Reviews in Biotechnology</i> , 2015 , 35, 199-208	9.4	52

115	Induced calcium carbonate precipitation using <i>Bacillus</i> species. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 9895-9906	5.7	52
114	New insights into the role of pH and aeration in the bacterial production of calcium carbonate (CaCO ₃). <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 3131-3142	5.7	49
113	Designing of an intensification process for biosynthesis and recovery of menaquinone-7. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 1347-57	3.2	49
112	The effect of iron oxide nanoparticles on <i>Bacillus subtilis</i> biofilm, growth and viability. <i>Process Biochemistry</i> , 2017 , 62, 231-240	4.8	43
111	Amine-modified magnetic iron oxide nanoparticle as a promising carrier for application in bio self-healing concrete. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 175-184	5.7	41
110	Bio-reinforced self-healing concrete using magnetic iron oxide nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 2167-2178	5.7	40
109	Production and application of menaquinone-7 (vitamin K ₂): a new perspective. <i>World Journal of Microbiology and Biotechnology</i> , 2017 , 33, 2	4.4	38
108	Mechanical properties of bio self-healing concrete containing immobilized bacteria with iron oxide nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 4489-4498	5.7	37
107	Effect of biofilm formation by <i>Bacillus subtilis</i> natto on menaquinone-7 biosynthesis. <i>Molecular Biotechnology</i> , 2013 , 54, 371-8	3	37
106	Application of microbially induced calcium carbonate precipitation in designing bio self-healing concrete. <i>World Journal of Microbiology and Biotechnology</i> , 2018 , 34, 168	4.4	35
105	Optimization of <i>Bacillus subtilis</i> natto growth parameters in glycerol-based medium for vitamin K (Menaquinone-7) production in biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 195-204	3.7	29
104	Enhanced Production of Menaquinone 7 via Solid Substrate Fermentation from <i>Bacillus subtilis</i> . <i>International Journal of Food Engineering</i> , 2011 , 7,	1.9	28
103	Magnetic immobilization of bacteria using iron oxide nanoparticles. <i>Biotechnology Letters</i> , 2018 , 40, 237-248	3.4	28
102	Green and Economic Fabrication of Zinc Oxide (ZnO) Nanorods as a Broadband UV Blocker and Antimicrobial Agent. <i>Nanomaterials</i> , 2020 , 10,	5.4	27
101	Facile fabrication of uniform hollow silica microspheres using a novel biological template. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 118, 249-53	6	27
100	Mechanical properties and durability performance of fly ash based mortar containing nano- and micro-silica additives. <i>Construction and Building Materials</i> , 2020 , 252, 119121	6.7	27
99	Strain and plastic composite support (PCS) selection for vitamin K (Menaquinone-7) production in biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 1507-1517	3.7	26
98	Identification of <i>Bacillus</i> Probiotics Isolated from Soil Rhizosphere Using 16S rRNA, recA, rpoB Gene Sequencing and RAPD-PCR. <i>Probiotics and Antimicrobial Proteins</i> , 2016 , 8, 8-18	5.5	26

97	Green synthesis and characterization of zero-valent iron nanoparticles using stinging nettle (<i>Urtica dioica</i>) leaf extract. <i>Green Processing and Synthesis</i> , 2017 , 6,	3.9	24
96	The role of magnetic iron oxide nanoparticles in the bacterially induced calcium carbonate precipitation. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3595-3606	5.7	24
95	The Effect of Cell Immobilization by Calcium Alginate on Bacterially Induced Calcium Carbonate Precipitation. <i>Fermentation</i> , 2017 , 3, 57	4.7	24
94	Biofilm reactors as a promising method for vitamin K (menaquinone-7) production. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 5583-5592	5.7	23
93	Implementation of fed-batch strategies for vitamin K (menaquinone-7) production by <i>Bacillus subtilis natto</i> in biofilm reactors. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9147-9157	5.7	23
92	Extracellular Production of Recombinant L-Asparaginase II in <i>Escherichia coli</i> : Medium Optimization Using Response Surface Methodology. <i>International Journal of Peptide Research and Therapeutics</i> , 2015 , 21, 487-495	2.1	22
91	Cloning, expression, and purification of a synthetic human growth hormone in <i>Escherichia coli</i> using response surface methodology. <i>Molecular Biotechnology</i> , 2015 , 57, 241-50	3	21
90	Green synthesis and characterization of silver nanoparticles using <i>Alcea rosea</i> flower extract as a new generation of antimicrobials. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2017 , 23, 31-37	0.7	21
89	Influence of small RNAs on biofilm formation process in bacteria. <i>Molecular Biotechnology</i> , 2013 , 55, 288-97	3	20
88	A novel approach to accelerate bacterially induced calcium carbonate precipitation using oxygen releasing compounds (ORCs). <i>Biocatalysis and Agricultural Biotechnology</i> , 2017 , 12, 299-307	4.2	20
87	Recycling of waste glass as aggregate in cement-based materials. <i>Environmental Science and Ecotechnology</i> , 2020 , 4, 100064	7.4	20
86	Microbial calcium carbonate precipitation with high affinity to fill the concrete pore space: nanobiotechnological approach. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 37-46	3.7	20
85	Effects of medium components in a glycerol-based medium on vitamin K (menaquinone-7) production by <i>Bacillus subtilis natto</i> in biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 223-232	3.7	20
84	Impact of magnetic immobilization on the cell physiology of green unicellular algae. <i>Bioengineered</i> , 2020 , 11, 141-153	5.7	19
83	Conversion of Mutton Fat to Cocoa Butter Equivalent by Increasing the Unsaturated Fatty Acids at the Sn-2 Position of Triacylglycerol Through Fermentation by <i>Yarrowia Lipolytica</i> . <i>American Journal of Biochemistry and Biotechnology</i> , 2015 , 11, 57-65	0.4	19
82	Controlled synthesis of iron oxyhydroxide (FeOOH) nanoparticles using secretory compounds from microalgae. <i>Bioengineered</i> , 2019 , 10, 390-396	5.7	18
81	Utilization of glucose-based medium and optimization of <i>Bacillus subtilis natto</i> growth parameters for vitamin K (menaquinone-7) production in biofilm reactors. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018 , 13, 219-224	4.2	18
80	Process Intensification for Production and Recovery of Biological Products. <i>American Journal of Biochemistry and Biotechnology</i> , 2015 , 11, 37-43	0.4	18

79	Modeling of vitamin K (Menaquinone-7) fermentation by <i>Bacillus subtilis natto</i> in biofilm reactors. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 17, 196-202	4.2	18
78	One-pot green synthesis of multifunctional silver iron core-shell nanostructure with antimicrobial and catalytic properties. <i>Industrial Crops and Products</i> , 2019 , 130, 230-236	5.9	17
77	Microwave-Assisted Green Synthesis of Silver Nanoparticles Using Leaf Extract and Evaluation of Their Physico-Chemical and Antibacterial Properties. <i>Antibiotics</i> , 2018 , 7,	4.9	16
76	Enhanced Vitamin K (Menaquinone-7) Production by <i>Bacillus subtilis natto</i> in Biofilm Reactors by Optimization of Glucose-based Medium. <i>Current Pharmaceutical Biotechnology</i> , 2018 , 19, 917-924	2.6	16
75	The effect of rare codons following the ATG start codon on expression of human granulocyte-colony stimulating factor in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2015 , 114, 108-14	2	15
74	Mesoporous carboxylated Mn ₂ O ₃ nanofibers: Synthesis, characterization and dye removal property. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 86, 57-72	5.3	15
73	Modeling Menaquinone 7 production in tray type solid state fermenter. <i>ANZIAM Journal</i> , 53, 354		15
72	Impact of 3-Aminopropyltriethoxysilane-Coated Iron Oxide Nanoparticles on Menaquinone-7 Production Using <i>B. subtilis</i> . <i>Nanomaterials</i> , 2017 , 7,	5.4	14
71	Biosynthesis of xanthan gum-coated INPs by using <i>Xanthomonas campestris</i> . <i>IET Nanobiotechnology</i> , 2018 , 12, 254-258	2	13
70	Green Synthesis of Silver Nanoparticles Capped with Natural Carbohydrates Using Ephedra intermedia. <i>Nanoscience and Nanotechnology - Asia</i> , 2017 , 7, 104-112	0.7	13
69	Synthesis And Characterization Of Silver Nanoparticles With Natural Carbohydrate Capping Using <i>Zataria Multiflora</i> . <i>Advanced Materials Letters</i> , 2016 , 7, 939-944	2.4	13
68	Xanthan Gum Capped ZnO Microstars as a Promising Dietary Zinc Supplementation. <i>Foods</i> , 2019 , 8,	4.9	12
67	Use of virtual learning to increase key laboratory skills and essential non-cognitive characteristics. <i>Education for Chemical Engineers</i> , 2020 , 33, 66-75	2.4	12
66	Optimization of reaction parameters for the green synthesis of zero valent iron nanoparticles using pine tree needles. <i>Green Processing and Synthesis</i> , 2019 , 8, 846-855	3.9	11
65	Nanobiotechnology in Food: Concepts, Applications and Perspectives 2019 ,		11
64	CHITOSAN NANOPARTICLES AND THEIR APPLICATIONS IN DRUG DELIVERY: A REVIEW 2014 , 1, 17-25		11
63	In silico Analysis of Several Signal Peptides for the Excretory Production of Reteplase in <i>Escherichia coli</i> . <i>Current Proteomics</i> , 2017 , 14,	0.7	11
62	Magnetic Immobilization of Cells for the Production of Recombinant Human Serum Albumin. <i>Nanomaterials</i> , 2020 , 10,	5.4	10

61	Template free synthesis of natural carbohydrates functionalised fluorescent silver nanoclusters. <i>IET Nanobiotechnology</i> , 2016 , 10, 120-3	2	10
60	The effect of virtual field trip as an introductory tool for an engineering real field trip. <i>Education for Chemical Engineers</i> , 2019 , 27, 6-11	2.4	10
59	The Effect of Real and Virtual Construction Field Trips on Students Perception and Career Aspiration. <i>Sustainability</i> , 2020 , 12, 1200	3.6	9
58	Microbially induced calcium carbonate precipitation to design a new type of bio self-healing dental composite. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2029-2037	5.7	8
57	Medium Optimization for Recombinant Soluble Arginine Deiminase Expression in Escherichia coli Using Response Surface Methodology. <i>Current Pharmaceutical Biotechnology</i> , 2017 , 18, 935-941	2.6	8
56	Biotechnological Approaches for Production of High Value Compounds from Bread Waste. <i>American Journal of Biochemistry and Biotechnology</i> , 2016 , 12, 102-109	0.4	8
55	Determination of Menaquinone-7 by a Simplified Reversed Phase- HPLC Method. <i>Current Pharmaceutical Biotechnology</i> , 2018 , 19, 664-673	2.6	7
54	Arginine Deiminase: Current Understanding and Applications. <i>Recent Patents on Biotechnology</i> , 2019 , 13, 124-136	2.2	7
53	Cis and trans isomers of the vitamin menaquinone-7: which one is biologically significant?. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2765-2776	5.7	7
52	Hydrothermally extraction of saponin from root - Physico-chemical characteristics and antibacterial activity evaluation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00507	5.3	7
51	A Review on the Utilization of Lignin as a Fermentation Substrate to Produce Lignin-Modifying Enzymes and Other Value-Added Products. <i>Molecules</i> , 2021 , 26,	4.8	7
50	Multifaceted toxin profile of Bacillus probiotic in newly isolated Bacillus spp. from soil rhizosphere. <i>Biologia (Poland)</i> , 2020 , 75, 309-315	1.5	7
49	Structural characterization of polysaccharide-coated iron oxide nanoparticles produced by Staphylococcus warneri, isolated from a thermal spring. <i>Journal of Basic Microbiology</i> , 2019 , 59, 569-578	2.7	6
48	Nattokinase production: Medium components and feeding strategy studies. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014 , 20, 541-547	0.7	6
47	Circular Economy of Construction and Demolition Waste: A Literature Review on Lessons, Challenges, and Benefits.. <i>Materials</i> , 2021 , 15,	3.5	6
46	New Perspectives on Iron-Based Nanostructures. <i>Processes</i> , 2020 , 8, 1128	2.9	5
45	Development of an Innovative Urease-Aided Self-Healing Dental Composite. <i>Catalysts</i> , 2020 , 10, 84	4	5
44	Enterobacter sp. Mediated Synthesis of Biocompatible Nanostructured Iron-Polysaccharide Complexes: a Nutritional Supplement for Iron-Deficiency Anemia. <i>Biological Trace Element Research</i> , 2020 , 198, 744-755	4.5	5

43	Magnetic immobilisation as a promising approach against bacteriophage infection. <i>Materials Research Express</i> , 2019 , 6, 1250a8	1.7	5
42	Probiotics/Prebiotics in Viral Respiratory Infections: Implication for Emerging Pathogens. <i>Recent Patents on Biotechnology</i> , 2021 , 15, 112-136	2.2	5
41	Size Tuned Synthesis of FeOOH Nanorods toward Self-Assembled Nanoarchitectonics. <i>Langmuir</i> , 2021 , 37, 115-123	4	5
40	Novel functional fermented dairy product rich in menaquinone-7. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016 , 7, 31-35	4.2	4
39	Extracellular Production of a Potent and Chemically Resistant Nattokinase in Immobilized <i>Escherichia coli</i> Using Response Surface Methodology. <i>Current Pharmaceutical Biotechnology</i> , 2018 , 19, 856-868	2.6	4
38	How menaquinone-7 deficiency influences mortality and morbidity among COVID-19 patients. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 29, 101792	4.2	4
37	Immobilization of Cells by Magnetic Nanoparticles. <i>Methods in Molecular Biology</i> , 2020 , 2100, 427-435	1.4	4
36	Hairy Root Culture: A Biotechnological Approach to Produce Valuable Metabolites 2017 , 131-160		3
35	Response surface methodology and reaction optimization to product zero-valent iron nanoparticles for organic pollutant remediation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 21, 101329	4.2	3
34	Nanobiotechnology in Food Packaging 2019 , 69-79		3
33	The effect of aeration and mixing in developing a dairy-based functional food rich in menaquinone-7. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 1773-1780	3.7	3
32	Coenzyme Q10 and its Effective Sources. <i>American Journal of Biochemistry and Biotechnology</i> , 2016 , 12, 214-219	0.4	3
31	Evaluation of vitamin K (menaquinone-7) stability and secretion in glucose and glycerol-based media by <i>Bacillus subtilis natto</i> . <i>Acta Alimentaria</i> , 2019 , 48, 405-414	1	3
30	The effect of iron oxide nanoparticles on <i>Lactobacillus acidophilus</i> growth at pH 4. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 39-45	3.7	3
29	Developing three-component ginger-cinnamon-cardamom composite essential oil nanoemulsion as natural food preservatives. <i>Environmental Research</i> , 2021 , 204, 112133	7.9	3
28	Development of a Menaquinone-7 enriched product through the solid-state fermentation of <i>Bacillus licheniformis</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 19, 101172	4.2	2
27	A functional dairy product rich in Menaquinone-7 and FeOOH nanoparticles. <i>LWT - Food Science and Technology</i> , 2020 , 129, 109564	5.4	2
26	Hygro-Thermo-Mechanical Responses of Balsa Wood Core Sandwich Composite Beam Exposed to Fire. <i>Processes</i> , 2020 , 8, 103	2.9	2

25	The Role of Blended Learning on Student Performance in Biotechnology Course. <i>American Journal of Biochemistry and Biotechnology</i> , 2017 , 13, 111-113	0.4	2
24	High Level of Menaquinone-7 Production by Milking Menaquinone-7 with Biocompatible Organic Solvents. <i>Current Pharmaceutical Biotechnology</i> , 2018 , 19, 232-239	2.6	2
23	Impacts of Magnetic Immobilization on the Growth and Metabolic Status of Recombinant <i>Pichia pastoris</i> . <i>Molecular Biotechnology</i> , 2021 , 1	3	2
22	Application of magnetic immobilization for ethanol biosynthesis using <i>Saccharomyces cerevisiae</i> . <i>Separation Science and Technology</i> , 1-11	2.5	2
21	Impacts of Magnetic Immobilization on the Recombinant Proteins Structure Produced in <i>Pichia pastoris</i> System. <i>Molecular Biotechnology</i> , 2021 , 63, 80-89	3	2
20	Effect of undergraduate research on students' learning and engagement. <i>International Journal of Mechanical Engineering Education</i> , 030641902198896	0.6	2
19	A Comparative Study on the Influence of Nano and Micro Particles on the Workability and Mechanical Properties of Mortar Supplemented with Fly Ash. <i>Buildings</i> , 2021 , 11, 60	3.2	2
18	Nano Iron Oxide-PCL Composite as an Improved Soft Tissue Scaffold. <i>Processes</i> , 2021 , 9, 1559	2.9	2
17	Future Prospects of Nanobiotechnology 2019 , 153-155		1
16	Challenges for Nanobiotechnology 2019 , 19-25		1
15	Isolation and identification of novel L-Methioninase producing bacteria and optimization of its production by experimental design method. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 26, 101566	4.2	1
14	Bio self-healing nanoconcretes 2020 , 547-558		1
13	<i>Vitamin K2 (Menaquinone-7) production by <i>Bacillus subtilis</i> natto by using a glucose-based medium in biofilm reactors</i> 2018 ,		1
12	Effect of nano and micro iron oxide particles on the workability, strength and absorption rate of cement mortar containing fly ash. <i>European Journal of Environmental and Civil Engineering</i> , 2020 , 1-15	1.5	1
11	Application of FeOOH Nano-Ellipsoids as a Novel Nano-Based Iron Supplement: an In Vivo Study. <i>Biological Trace Element Research</i> , 2021 , 1	4.5	1
10	Potential application of <i>Aspergillus terreus</i> , as a biofactory, in extracellular fabrication of silver nanoparticles. <i>Fuel</i> , 2022 , 308, 122007	7.1	1
9	Synthesis of mesoporous antimicrobial herbal nanomaterial-carrier for silver nanoparticles and antimicrobial sensing.. <i>Food and Chemical Toxicology</i> , 2022 , 165, 113077	4.7	1
8	Effects of Thermosonication, Sonication and Mild Heating on Organoleptic Attributes of Three Red Fruit Juices. <i>Current Nutrition and Food Science</i> , 2020 , 16, 1299-1308	0.7	0

- 7 A Study of L-Lysine-Stabilized Iron Oxide Nanoparticles (IONPs) on Microalgae Biofilm Formation of *Chlorella vulgaris*.. *Molecular Biotechnology*, **2022**, 1 3 0
- 6 Whole cell immobilization of recombinant *E. coli* cells by calcium alginate beads; evaluation of plasmid stability and production of extracellular L-asparaginase. *Separation Science and Technology*,1-7 2.5 0
- 5 Nanobiotechnology at a Glance **2019**, 1-17
- 4 Novel Technologies in Food Nanobiotechnology **2019**, 27-40
- 3 Response Surface Optimized Ultrasonic Assisted Extraction of Total Flavonoids from Walnut Leaves and In Vitro Antibacterial Activities. *American Journal of Biochemistry and Biotechnology*, **2017**, 13, 176-188 0.4
- 2 CHAPTER 17: Intensification of Functional Foods Production. *RSC Green Chemistry*, **2018**, 365-380 0.9
- 1 Role of *Bacillus* Genus in the Production of Value-Added Compounds **2016**, 1-33