

# Aysenur Aygun

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43 papers	1,093 citations	17 h-index	32 g-index
49 ext. papers	1,487 ext. citations	5 avg, IF	5.07 L-index

#	Paper	IF	Citations
43	Highly active PdPt bimetallic nanoparticles synthesized by one-step bioreduction method: Characterizations, anticancer, antibacterial activities and evaluation of their catalytic effect for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	10
42	An environmental approach for the photodegradation of toxic pollutants from wastewater using Pt-Pd nanoparticles: Antioxidant, antibacterial and lipid peroxidation inhibition applications.. <i>Environmental Research</i> , <b>2022</b> , 208, 112708	7.9	7
41	Facile bio-fabrication of Pd-Ag bimetallic nanoparticles and its performance in catalytic and pharmaceutical applications: Hydrogen production and in-vitro antibacterial, anticancer activities, and model development. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 180, 254-264	5.5	4
40	Phyto-mediated synthesis of nanoparticles and their applications on hydrogen generation on NaBH <sub>4</sub> , biological activities and photodegradation on azo dyes: Development of machine learning model.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 163, 112972	4.7	0
39	Assessment of therapeutic potential of silver nanoparticles synthesized by <i>Ferula Pseudalliacea</i> rech. F. plant. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 140, 109417	3.1	1
38	Development of electrochemical aptasensors detecting phosphate ions on TMB substrate with epoxy-based mesoporous silica nanoparticles.. <i>Chemosphere</i> , <b>2022</b> , 134077	8.4	1
37	Biosynthesis of Ag-Pt bimetallic nanoparticles using propolis extract: Antibacterial effects and catalytic activity on NaBH <sub>4</sub> hydrolysis.. <i>Environmental Research</i> , <b>2021</b> , 206, 112622	7.9	8
36	Green synthesis of palladium nanoparticles: Preparation, characterization, and investigation of antioxidant, antimicrobial, anticancer, and DNA cleavage activities. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6272	3.1	15
35	Electro-catalytic amplified sensor for determination of N-acetylcysteine in the presence of theophylline confirmed by experimental coupled theoretical investigation. <i>Scientific Reports</i> , <b>2021</b> , 11, 1006	4.9	2
34	Resistance, removal, and bioaccumulation of Ni (II) and Co (II) and their impacts on antioxidant enzymes of <i>Anoxybacillus mongoliensis</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2020</b> , 235, 108790	3.2	7
33	Green synthesis and characterization of <i>Camellia sinensis</i> mediated silver nanoparticles for antibacterial ceramic applications. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 250, 123037	4.4	27
32	Ionic Liquids for the Sustainable Development of Chemistry. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 99-111	1.1	
31	Biogenic platinum nanoparticles using black cumin seed and their potential usage as antimicrobial and anticancer agent. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 179, 112961	3.5	59
30	Synthesis and characterization of Reishi mushroom-mediated green synthesis of silver nanoparticles for the biochemical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 178, 112970	3.5	85
29	Biological synthesis of silver nanoparticles using <i>Rheum ribes</i> and evaluation of their anticarcinogenic and antimicrobial potential: A novel approach in phytonanotechnology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 179, 113012	3.5	41
28	A new nickel-based co-crystal complex electrocatalyst amplified by NiO dope Pt nanostructure hybrid; a highly sensitive approach for determination of cysteamine in the presence of serotonin. <i>Scientific Reports</i> , <b>2020</b> , 10, 11699	4.9	178
27	Bimetallic palladium-cobalt nanomaterials as highly efficient catalysts for dehydrocoupling of dimethylamine borane. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 3569-3576	6.7	15

26	Medicinal Applications of Photocatalysts. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 245-265.8		
25	Polymer-graphene hybrid stabilized ruthenium nanocatalysts for the dimethylamine-borane dehydrogenation at ambient conditions. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 279, 578-583	6	27
24	Synergistic and Antagonistic Effects of Phenylalanine and Various Antibiotics on the Growth of Pathogenic Bacteria. <i>BioNanoScience</i> , <b>2019</b> , 9, 446-452	3.4	1
23	Equilibrium, Kinetics and Thermodynamics of Bovine Serum Albumin from Carbon Based Materials Obtained from Food Wastes. <i>BioNanoScience</i> , <b>2019</b> , 9, 692-701	3.4	5
22	Binary Palladium-Nickel/Vulcan carbon-based nanoparticles as highly efficient catalyst for hydrogen evolution reaction at room temperature. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 101, 92-98	5.3	12
21	Glutathione S-Transferase: Purification and Characterization of from Cherry Laurel ( <i>Prunus laurocerasus</i> L.) and the Investigation In Vitro Effects of Some Metal Ions and Organic Compounds on Enzyme Activity. <i>BioNanoScience</i> , <b>2019</b> , 9, 683-691	3.4	7
20	A new highly active polymer supported ruthenium nanocatalyst for the hydrolytic dehydrogenation of dimethylamine-borane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 99, 60-65	5.3	18
19	Highly monodispersed palladium-ruthenium alloy nanoparticles assembled on poly(N-vinyl-pyrrolidone) for dehydrocoupling of dimethylamine-borane: An experimental and density functional theory study. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 546, 83-91	9.3	17
18	Highly active and reusable nanocomposites for hydrogen generation <b>2019</b> , 27-41		1
17	Monodisperse PVP-stabilized nanoclusters as highly efficient and reusable catalysts for the dehydrogenation of dimethyl ammonia-borane (DMAB) <b>2019</b> , 601-614		0
16	Purification and characterization of glutathione S-transferase from blueberry fruits (L.) and investigated of some pesticide inhibition effects on enzyme activity. <i>Heliyon</i> , <b>2019</b> , 5, e01422	3.6	16
15	Nanocarbon-supported catalysts for the efficient dehydrogenation of dimethylamine borane <b>2019</b> , 615-628		6
14	Composites of Platinum-Iridium Alloy Nanoparticles and Graphene Oxide for the Dimethyl Amine Borane (DMAB) dehydrogenation at ambient conditions: An Experimental and Density Functional Theory Study. <i>Scientific Reports</i> , <b>2019</b> , 9, 15543	4.9	6
13	Graphene-Based Nanomaterials for Hydrogen Storage. <i>Carbon Nanostructures</i> , <b>2019</b> , 229-245	0.6	
12	Graphene Functionalizations on Copper by Spectroscopic Techniques. <i>Carbon Nanostructures</i> , <b>2019</b> , 313-333		
11	Analysis of DNA protection, interaction and antimicrobial activity of isatin derivatives. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 122, 1271-1278	7.9	14
10	Metal-organic frameworks based on monodisperse palladium cobalt nanohybrids as highly active and reusable nanocatalysts for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2988-2996	6.7	17
9	Investigation of Asymmetric Dimethylarginine, Adiponectin, Zn, and Cu Levels in Obese Subjects. <i>BioNanoScience</i> , <b>2019</b> , 9, 30-37	3.4	1

8	Cytotoxic effects of platinum nanoparticles obtained from pomegranate extract by the green synthesis method on the MCF-7 cell line. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 163, 119-124	6	114
7	Bimetallic palladium-iridium alloy nanoparticles as highly efficient and stable catalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20183-20191	6.7	41
6	Antidiabetic and antiparasitic potentials: Inhibition effects of some natural antioxidant compounds on $\alpha$ -glucosidase, $\alpha$ -amylase and human glutathione S-transferase enzymes. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 741-746	7.9	132
5	Monodisperse palladium nanoparticles assembled on graphene oxide with the high catalytic activity and reusability in the dehydrogenation of dimethylamine-borane. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20176-20182	6.7	44
4	Immobilization kinetics and mechanism of bovine serum albumin on diatomite clay from aqueous solutions. <i>Applied Water Science</i> , <b>2018</b> , 8, 1	5	17
3	The dye removal from aqueous solution using polymer composite films. <i>Applied Water Science</i> , <b>2018</b> , 8, 1	5	35
2	Carbon-nanotube-based rhodium nanoparticles as highly-active catalyst for hydrolytic dehydrogenation of dimethylamineborane at room temperature. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 321-327	9.3	46
1	Investigation of the effect of pomegranate extract and monodisperse silver nanoparticle combination on MCF-7 cell line. <i>Journal of Biotechnology</i> , <b>2017</b> , 260, 79-83	3.7	52