

# Naznin Ara Begum

## List of Publications by Year in descending order

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46  
papers

1,549  
citations

471509

17  
h-index

302126

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic synthesis of Au and Ag nanoparticles using aqueous solutions of Black Tea leaf extracts. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 71, 113-118.	5.0	432
2	Biogenic synthesis of Ag, Au and bimetallic Au/Ag alloy nanoparticles using aqueous extract of mahogany ( <i>Swietenia mahogani</i> JACQ.) leaves. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 497-504.	5.0	196
3	Biogenic synthesis of Au and Ag nanoparticles by Indian propolis and its constituents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 317-325.	5.0	105
4	Antioxidant activity of Indian propolis and its chemical constituents. <i>Food Chemistry</i> , 2010, 122, 233-237.	8.2	100
5	Green chemistry for nanochemistry: exploring medicinal plants for the biogenic synthesis of metal NPs with fine-tuned properties. <i>RSC Advances</i> , 2013, 3, 11935.	3.6	67
6	A detailed study on the antioxidant activity of the stem bark of <i>Dalbergia sissoo</i> Roxb., an Indian medicinal plant. <i>Food Chemistry</i> , 2011, 126, 1115-1121.	8.2	62
7	<i>Murraya koenigii</i> Spreng. Leaf Extract: An Efficient Green Multifunctional Agent for the Controlled Synthesis of Au Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 652-664.	6.7	56
8	Proton Transfer Dynamics of 4-N,N-Dimethylamino-3-hydroxyflavone Observed in Hydrogen-Bonding Solvents and Aqueous Micelles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5650-5661.	2.6	52
9	Efficacy and field applicability of Burmese grape leaf extract (BGLE) for cadmium removal: An implication of metal removal from natural water. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 585-593.	6.0	45
10	Design, synthesis and exploring the quantitative structure–activity relationship of some antioxidant flavonoid analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5050-5054.	2.2	44
11	Mosquito larvicidal studies of some chalcone analogues and their derived products: structure–activity relationship analysis. <i>Medicinal Chemistry Research</i> , 2011, 20, 184-191.	2.4	39
12	Exploring Indian Rosewood as a promising biogenic tool for the synthesis of metal nanoparticles with tailor-made morphologies. <i>Process Biochemistry</i> , 2012, 47, 1371-1380.	3.7	30
13	Calcium phosphate-quercetin nanocomposite (CPQN): A multi-functional nanoparticle having pH indicating, highly fluorescent and anti-oxidant properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 63-73.	5.0	28
14	Burmese grape fruit juice can trigger the “logic gate”-like colorimetric sensing behavior of Ag nanoparticles towards toxic metal ions. <i>RSC Advances</i> , 2015, 5, 23419-23430.	3.6	26
15	Vanadium(IV) acetylacetonate catalyzed stereoselective synthesis of $\beta^2$ -enaminoesters and $\beta^2$ -enaminones. <i>Tetrahedron Letters</i> , 2013, 54, 436-440.	1.4	24
16	Exploration of synthetic antioxidant flavonoid analogs as acetylcholinesterase inhibitors: an approach towards finding their quantitative structure–activity relationship. <i>Medicinal Chemistry Research</i> , 2019, 28, 723-741.	2.4	23
17	Unusually slow intramolecular proton transfer dynamics of 4-N,N-dimethylamino-3-hydroxyflavone in high n-alcohols: involvement of solvent relaxation. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 266-277.	2.9	19
18	Understanding of the interactions of ctDNA with an antioxidant flavone analog: Exploring the utility of the small molecule as fluorescent probe for biomacromolecule. <i>Journal of Molecular Structure</i> , 2018, 1165, 276-287.	3.6	16

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19	Fluorescence spectroscopy of a naturally occurring carbazole alkaloid: murrayanine. Journal of Luminescence, 2009, 129, 158-163.	3.1	13
20	Effect of an Electron-Donating Substituent at the 3,4-position of 3-Hydroxyflavone: Photophysics in Bulk Solvents. Journal of Physical Chemistry A, 2016, 120, 44-54.	2.5	13
21	Exploring the efficacy of naturally occurring biflavone based antioxidants towards the inhibition of the SARS-CoV-2 spike glycoprotein mediated membrane fusion. Virology, 2021, 556, 133-139.	2.4	13
22	Antioxidant flavone analog functionalized fluorescent silica nanoparticles: Synthesis and exploration of their possible use as biomolecule sensor. Colloids and Surfaces B: Biointerfaces, 2017, 157, 286-296.	5.0	13
23	Proton transfer reactions of 4-chloro substituted 3-hydroxyflavone in solvents and aqueous micelle solutions. Physical Chemistry Chemical Physics, 2014, 16, 8594.	2.8	12
24	Proton transfer dynamics in a polar nanodroplet: ESIPT of 4'-n,n-dimethylamino-3-hydroxyflavone in AOT/alkane/water reverse micelles. Journal of Luminescence, 2017, 184, 64-73.	3.1	12
25	Naturally occurring green multifunctional agents: Exploration of their roles in the world of graphene and related systems. Nano Structures Nano Objects, 2018, 13, 1-20.	3.5	10
26	Nickel(II) chloride hexahydrate catalyzed reaction of aromatic aldehydes with 2-mercaptoethanol: formation of supramolecular helical assemblage of the product. Tetrahedron Letters, 2013, 54, 5839-5844.	1.4	9
27	3,4-methylenedioxy-3-hydroxyflavone: switchover from reversible to irreversible ESIPT along the n-alcohol series. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 328, 77-86.	3.9	9
28	Exploring the efficacy of Basella alba mucilage towards the encapsulation of the hydrophobic antioxidants for their better performance. Process Biochemistry, 2017, 61, 178-188.	3.7	9
29	Unfolding the Role of a Flavone-Based Fluorescent Antioxidant towards the Misfolding of Amyloid Proteins: An Endeavour to Probe Amyloid Aggregation. Journal of Physical Chemistry B, 2020, 124, 11133-11144.	2.6	9
30	Carbazole analog anchored fluorescent silica nanoparticle showing enhanced biocompatibility and selective sensing ability towards biomacromolecule. Dyes and Pigments, 2020, 173, 107994.	3.7	8
31	Antioxidant flavone functionalized fluorescent and biocompatible metal nanoparticles: Exploring their efficacy as cell imaging agents. Nano Structures Nano Objects, 2019, 18, 100278.	3.5	7
32	Understanding the efficacy of N,N-dimethylformamide and oxalyl chloride combination as chemoselective O-formylating agent: An unified experimental and theoretical study. Synthetic Communications, 2016, 46, 692-700.	2.1	6
33	Green-nanochemistry for safe environment: bio-friendly synthesis of fluorescent monometallic (Ag) Nanostructure in Chemistry, 2016, 6, 373-395.	9.1	6
34	Solvent- and catalyst-free N-formylations of amines at ambient condition: Exploring the usability of aromatic formates as N-formylating agents. Synthetic Communications, 2017, 47, 137-147.	2.1	6
35	Tailoring the catalytic activity of Au nanoparticles synthesized by a naturally occurring green multifunctional agent. Arabian Journal of Chemistry, 2019, 12, 3825-3835.	4.9	6
36	Carbazole-decorated fluorescent CdS quantum dots: A potential light-harvesting material. Journal of Physics and Chemistry of Solids, 2022, 164, 110603.	4.0	6

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37	Harnessing carbazole based small molecules for the synthesis of the fluorescent gold nanoparticles: A unified experimental and theoretical approach to understand the mechanism of synthesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 440-450.	5.0	5
38	Fluorescent Small Molecules Are BIG Enough To Sense Biomacromolecule: Synthesis of Aromatic Thioesters and Understanding Their Interactions with ctDNA. <i>ACS Omega</i> , 2018, 3, 334-348.	3.5	4
39	Exploring Comparative Antioxidant Activity of Some Popular Cultivars of <i>Mangifera indica</i> L., National Fruit of India. <i>International Journal of Fruit Science</i> , 2015, 15, 129-147.	2.4	3
40	A Brief Introduction to the Development of Biogenic Synthesis of Metal Nanoparticles. <i>Journal of Nano Research</i> , 2014, 27, 41-52.	0.8	2
41	Photophysical studies on a photoactive yellow protein fluorophore analog with the 4-Hydroxy group replaced by 4-Dimethylamino group. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 335, 86-93.	3.9	1
42	Towards the development of antioxidant-wrapped graphene-based fluorescent nanomaterials having theranostic potentials: A combined experimental and theoretical study. <i>Carbon Trends</i> , 2021, 4, 100042.	3.0	1
43	Exploring the Propensities of Fluorescent Carbazole Analogs toward the Inhibition of Amyloid Aggregation in Type 2 Diabetes: An Experimental and Theoretical Endeavor. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10481-10493.	2.6	1
44	Curry Leaf and its Antioxidant Potential: A Systematic Study to Enhance its Activity in Aqueous Medium. <i>Current Nutrition and Food Science</i> , 2020, 16, 323-332.	0.6	1
45	Nanonization of a chemically synthesized flavone HMDF (3-hydroxy-3,4-methylenedioxyflavone) by entrapping within calcium phosphate nanoparticles and exploring its antioxidant role on neural cells in vitro and zebrafish in vivo. <i>Nanotechnology</i> , 2021, 32, 235101.	2.6	0
46	Understanding the Role of Flavonoid Based Small Molecules in Modulating the Oncogenic Protein-Protein Interactions: A Quest for Therapeutic Arsenal. <i>Journal of Molecular Structure</i> , 2022, 1248, 131511.	3.6	0