

Mahboob Alam

List of Publications by Year in descending order

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100
papers

1,649
citations

331670

21
h-index

395702

33
g-index

105
all docs

105
docs citations

105
times ranked

1707
citing authors

#	ARTICLE	IF	CITATIONS
1	Low cost biosorbents from fungi for heavy metals removal from wastewater. <i>Separation Science and Technology</i> , 2020, 55, 1766-1775.	2.5	146
2	Black Cumin (<i>Nigella sativa</i> L.): A Comprehensive Review on Phytochemistry, Health Benefits, Molecular Pharmacology, and Safety. <i>Nutrients</i> , 2021, 13, 1784.	4.1	101
3	Neuroprotective Potentials of Marine Algae and Their Bioactive Metabolites: Pharmacological Insights and Therapeutic Advances. <i>Marine Drugs</i> , 2020, 18, 347.	4.6	66
4	Biosynthesis of copper oxide nanoparticles and its therapeutic efficacy against colon cancer. <i>Nanotechnology Reviews</i> , 2022, 11, 1322-1331.	5.8	53
5	Spectroscopic (FTIR, FT-Raman, ¹ H NMR and UV-Vis) and DFT/TD-DFT studies on cholesteno [4,6-b,c]-2,5-dihydro-1,5-benzothiazepine. <i>Journal of Molecular Structure</i> , 2019, 1178, 570-582.	3.6	48
6	Interaction mode of polycarbazole-titanium dioxide nanocomposite with DNA: Molecular docking simulation and in-vitro antimicrobial study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 153, 20-32.	3.8	45
7	Synthesis, spectroscopic, computational (DFT/B3LYP), AChE inhibition and antioxidant studies of imidazole derivative. <i>Journal of Molecular Structure</i> , 2018, 1151, 327-342.	3.6	38
8	In vitro DNA binding, molecular docking and antimicrobial studies on a newly synthesized poly(o-toluidine)-titanium dioxide nanocomposite. <i>RSC Advances</i> , 2014, 4, 39174.	3.6	36
9	Molecular structure, spectral studies, NBO, HOMO-LUMO profile, MEP and Mulliken analysis of 3,6-dichloro-5-hydroxy-5-cholestane. <i>Journal of Molecular Structure</i> , 2018, 1159, 33-45.	3.6	36
10	Design, structural investigations and antimicrobial activity of pyrazole nucleating copper and zinc complexes. <i>Polyhedron</i> , 2021, 195, 114991.	2.2	32
11	In silico studies on phytochemicals to combat the emerging COVID-19 infection. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101367.	5.2	32
12	Synthesis, Structural Characterization and Antimicrobial Activity of Cu(II) and Fe(III) Complexes Incorporating Azo-Azomethine Ligand. <i>Molecules</i> , 2018, 23, 813.	3.8	31
13	Synthesis, characterization, DNA-binding studies and acetylcholinesterase inhibition activity of new 3-formyl chromone derivatives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 130, 179-187.	3.8	30
14	Synthesis, spectroscopic and computational studies of 2-(thiophen-2-yl)-2,3-dihydro-1H-perimidine: An enzymes inhibition study. <i>Computational Biology and Chemistry</i> , 2016, 64, 185-201.	2.3	30
15	Zn(II) complex derived from bidentate Schiff base ligand: Synthesis, characterization, DFT studies and evaluation of anti-inflammatory activity. <i>Journal of Molecular Structure</i> , 2020, 1201, 127177.	3.6	28
16	Synthesis, bioassay, crystal structure and ab initio studies of Erlenmeyer azlactones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 538-545.	3.9	27
17	Synthesis, antibacterial and antifungal activities of 6,5 fused steroidal oxazoles in cholestane series. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 1094-1097.	5.5	26
18	Potent acetylcholinesterase inhibitors: Synthesis, biological assay and docking study of nitro acridone derivatives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 304-311.	3.8	26

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19	Synthesis, α -glucosidase inhibition, and molecular docking studies of novel N-substituted hydrazide derivatives of atranorin as antidiabetic agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127359.	2.2	25
20	Therapeutic role of flavonoids and flavones in cancer prevention: Current trends and future perspectives. <i>European Journal of Medicinal Chemistry Reports</i> , 2021, 3, 100010.	1.4	25
21	Synthesis and characterization of novel PUFA esters exhibiting potential anticancer activities: An <i>in vitro</i> study. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4878-4886.	5.5	24
22	[Et ₃ NH][HSO ₄]-catalyzed eco-friendly and expeditious synthesis of thiazolidine and oxazolidine derivatives. <i>RSC Advances</i> , 2015, 5, 19552-19569.	3.6	22
23	Enzyme immobilization and molecular modeling studies on an organic-inorganic polypyrrole-titanium(iv)phosphate nanocomposite. <i>New Journal of Chemistry</i> , 2015, 39, 6976-6986.	2.8	22
24	Synthesis, characterization, molecular docking and biological studies of self assembled transition metal dithiocarbamates of substituted pyrrole-2-carboxaldehyde. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 392-399.	3.8	21
25	Computational and anti-tumor studies of 7a-Aza-B-homostigmast-5-eno [7a, 7-d] tetrazole-3-yl chloride. <i>Journal of Molecular Structure</i> , 2016, 1108, 411-426.	3.6	21
26	DFT/TD-DFT calculations, spectroscopic characterizations (FTIR, NMR, UV-vis), molecular docking and enzyme inhibition study of 7-benzoyloxycoumarin. <i>Computational Biology and Chemistry</i> , 2018, 73, 65-78.	2.3	21
27	Molecular pharmacology and therapeutic advances of the pentacyclic triterpene lupeol. <i>Phytomedicine</i> , 2022, 99, 154012.	5.3	21
28	DFT, Hirshfeld surfaces, spectral and <i>in vivo</i> cytotoxic studies of 7a-Aza-B-homostigmast-5-eno [7a,7-d] tetrazole. <i>Journal of Molecular Structure</i> , 2015, 1099, 588-600.	3.6	20
29	Spectroscopic, Structural, DFT and Molecular Docking Studies on Novel Cocrystal Salt Hydrate of Chromotropic Acid and Its Antibiofilm Activity. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 353-364.	3.0	20
30	A facile & convenient route for the stereoselective synthesis of Z-isoxazol-5(4H)-ones derivatives catalysed by sodium acetate: Synthesis, multispectroscopic properties, crystal structure with DFT calculations, DNA-binding studies and molecular docking studies. <i>Journal of Molecular Structure</i> , 2020, 1200, 127067.	3.6	19
31	Novel nickel(II), palladium(II), and platinum(II) complexes having a pyrrolyl-iminophosphine (PNN) pincer: Synthesis, crystal structures, and cytotoxic activity. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 111015.	3.5	18
32	Synthesis, X-ray crystallography, spectroscopic (FT-IR, ¹ H & ¹³ C NMR and UV), computational (DFT/B3LYP) and enzymes inhibitory studies of 7-hydroximincholest-5-en-3-ol acetate. <i>Journal of Molecular Structure</i> , 2016, 1116, 317-332.	3.6	17
33	Biosynthesis of silver nanoparticles and its application against phytopathogenic bacterium and fungus. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 1390-1401.	3.3	17
34	Biosynthesis of MgO nanoparticles using <i>Annona squamosa</i> seeds and its catalytic activity and antibacterial screening. <i>Micro and Nano Letters</i> , 2020, 15, 30-34.	1.3	16
35	Stereoselective synthesis of Z-acrylonitrile derivatives: catalytic and acetylcholinesterase inhibition studies. <i>New Journal of Chemistry</i> , 2014, 38, 1655-1667.	2.8	15
36	Synthesis, characterization, cytotoxicity, and molecular docking studies of ampyrone-based transition metal complexes. <i>Transition Metal Chemistry</i> , 2021, 46, 65-71.	1.4	15

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37	In acid-aminopyrimidine continuum: experimental and computational studies of furan tetracarboxylate-2-aminopyrimidinium salt. <i>RSC Advances</i> , 2021, 11, 21463-21474.	3.6	15
38	Photocatalytic activity of biogenic zinc oxide nanoparticles: <i>in vitro</i> antimicrobial, biocompatibility, and molecular docking studies. <i>Nanotechnology Reviews</i> , 2021, 10, 1079-1091.	5.8	15
39	In-silico investigation of phenolic compounds from leaves of <i>Phillyrea angustifolia</i> L. as a potential inhibitor against the SARS-CoV-2 main protease (Mpro PDB ID:5R83) using a virtual screening method. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101473.	5.2	15
40	Synthesis, characterization, X-ray diffraction, antimicrobial and <i>in vitro</i> cytotoxicity studies of 7a-Aza-B-homostigmast-5-eno [7a,7-d] tetrazole. <i>Comptes Rendus Chimie</i> , 2013, 16, 201-206.	0.5	14
41	Morphological, structural, molecular docking and biocidal studies of newly synthesized Ppy@MA/TiO ₂ nanocomposites. <i>Polymers for Advanced Technologies</i> , 2015, 26, 1627-1638.	3.2	14
42	Photoremediation of methylene blue by biosynthesized ZnO/Fe ₃ O ₄ nanocomposites using <i>Callistemon viminalis</i> leaves aqueous extract: A comparative study. <i>Nanotechnology Reviews</i> , 2021, 10, 1912-1925.	5.8	14
43	Prospects of Marine Sterols against Pathobiology of Alzheimer's Disease: Pharmacological Insights and Technological Advances. <i>Marine Drugs</i> , 2021, 19, 167.	4.6	13
44	Synthesis of Aryl-1,2,4,5-tetrazinane-3-thiones, <i>in vitro</i> DNA binding studies, nuclease activity and its antimicrobial activity. <i>Journal of Molecular Structure</i> , 2012, 1020, 33-40.	3.6	12
45	Two new phenolic compounds from <i>Ficus rumphii</i> and their antiproliferative activity. <i>Natural Product Research</i> , 2014, 28, 646-652.	1.8	12
46	Silica Bonded N-(Propylcarbamoyl)sulfamic acid (SBPCSA) Mediated Expedient Approach to C-C Bond Formation: An Innovative Pathway for Acrylonitrile Derivatives. <i>Catalysis Letters</i> , 2016, 146, 1687-1705.	2.6	12
47	Synthesis, structural investigations and pharmacological properties of a new zinc complex with a N4-donor Schiff base incorporating 2-pyridyl ring. <i>Inorganica Chimica Acta</i> , 2019, 487, 97-106.	2.4	12
48	Green Synthesis Using PEG400 Catalyst, Antimicrobial Activities, Cytotoxicity and <i>In Silico</i> Molecular Docking of New Carbazole Based on β -Aminophosphonate. <i>ChemistrySelect</i> , 2020, 5, 6339-6349.	1.5	12
49	Acetylcholinesterase and Cytotoxic Activity of Chemical Constituents of <i>Clutia lanceolata</i> Leaves and its Molecular Docking Study. <i>Natural Products and Bioprospecting</i> , 2016, 6, 267-278.	4.3	11
50	3 β , 6 β -dichloro-5-hydroxy-5 α -cholestane facilitates neuronal development through modulating TrkA signaling regulated proteins in primary hippocampal neuron. <i>Scientific Reports</i> , 2019, 9, 18919.	3.3	11
51	Microwave assisted synthesis and <i>in silico</i> screening of steroidal pyrazolines. <i>Chinese Chemical Letters</i> , 2012, 23, 1039-1042.	9.0	10
52	Synthesis of biogenic silver nanoparticles from the seed coat waste of pistachio (<i>Pistacia vera</i>) and their effect on the growth of eggplant. <i>Nanotechnology Reviews</i> , 2021, 10, 1789-1800.	5.8	10
53	Antifungal Cationic Nanoemulsion Ferrying Miconazole Nitrate with Synergism to Control Fungal Infections: <i>In Vitro</i> , <i>Ex Vivo</i> , and <i>In Vivo</i> Evaluations. <i>ACS Omega</i> , 2022, 7, 13343-13353.	3.5	10
54	Spectral, molecular, <i>in vivo</i> cytotoxicity and immobilization of β -galactosidase on poly(o-toluidine)-titanium dioxide nanocomposite. <i>Journal of Molecular Structure</i> , 2017, 1137, 216-232.	3.6	9

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55	The synthesis of 2- α -amino-5 β -cholest-6-eno [6,7-d] thiazole derivatives under microwave irradiation using dry-media conditions. <i>Chinese Chemical Letters</i> , 2008, 19, 1027-1030.	9.0	8
56	Synthesis, characterization, thermal and antioxidant studies of potassium dihydrobisphenothiazinyl borate and its transition metal complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 729-735.	3.9	8
57	Catalyst Promoted Synthesis, Computational and Enzyme Inhibition Studies of Coumarin Esters. <i>Catalysis Letters</i> , 2014, 144, 2091-2106.	2.6	8
58	Single crystal X-ray structure, spectroscopic and DFT studies of Imidazo[2,1-b]thiazole: 2-(3-hydroxy-3-phenylimidazo[2,1-b]thiazol-2(3H)-ylidene)-1-phenylethanone. <i>Journal of Molecular Structure</i> , 2018, 1157, 638-653.	3.6	8
59	Structural characterization of microcrystalline and nanocrystalline cellulose from <i>Ananas comosus</i> L. leaves: Cytocompatibility and molecular docking studies. <i>Nanotechnology Reviews</i> , 2021, 10, 793-806.	5.8	8
60	Search for Effective Approaches to Fight Microorganisms Causing High Losses in Agriculture: Application of <i>P. lilacinum</i> Metabolites and Mycosynthesised Silver Nanoparticles. <i>Biomolecules</i> , 2022, 12, 174.	4.0	8
61	Separation of Chromium (VI), Copper and Zinc: Chemistry of Transport of Metal Ions across Supported Liquid Membrane. <i>Membranes</i> , 2022, 12, 685.	3.0	8
62	Green synthesis, biochemical and quantum chemical studies of steroidal oximes. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1142-1150.	2.7	7
63	In vivo cytotoxicity, molecular docking and study of yeast alcohol dehydrogenase on polycarbazole-titanium dioxide nanocomposite. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 79-88.	1.8	7
64	Synthesis, crystal structure and Hirshfeld surface analyses of an alkyl amine based salt, [C ₅ H ₁₆ N ₂][ZnCl ₄] and its enzyme inhibition activity. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 481-486.	5.2	7
65	Empirical scale-up model of pan-coating process for controlled-release urea fertilizer production. <i>Particulate Science and Technology</i> , 2021, 39, 773-780.	2.1	7
66	Isolation, Identification, Spectral Studies and X-ray Crystal Structures of Two Compounds from <i>Bixa orellana</i> , DFT Calculations and DNA Binding Studies. <i>Crystals</i> , 2022, 12, 380.	2.2	7
67	Extensive Analyses on Expanding the Scope of Acidic Aminopyrimidine Synthons for the Design of Molecular Solids. <i>Crystal Growth and Design</i> , 2022, 22, 4316-4331.	3.0	7
68	Synthesis and structure determination of 7a-Aza-B-homostigmast-5-eno [7a, 7-d] tetrazole-3-yl chloride (C ₂₉ H ₄₇ N ₄ Cl). <i>Journal of Chemical Crystallography</i> , 2006, 36, 793-798.	1.1	6
69	SYNTHESIS, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF NEW STEROIDAL CHOLEST-5-EN-7-ONE DERIVATIVES FUSED WITH SUBSTITUTED PYRAZOLINE RING. <i>Journal of the Chilean Chemical Society</i> , 2009, 54, .	1.2	6
70	Ultrasound-assisted synthesis of benzothiazepines and assessment of their in vitro acetylcholinesterase inhibition activity. <i>Green Chemistry Letters and Reviews</i> , 2014, 7, 158-166.	4.7	6
71	Detailed molecular, structural and spectral studies of bimetallic salt, [Ni(L)][CoCl ₄] where L = 3,7-bis(2-aminoethyl)-1,3,5,7-tetraazabicyclo(3.3.1)nonane. <i>Journal of Molecular Structure</i> , 2017, 1138, 90-101.	3.6	6
72	Eco-friendly synthesis, physicochemical studies, biological assay and molecular docking of steroidal oxime-ethers. <i>EXCLI Journal</i> , 2015, 14, 394-407.	0.7	6

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73	Synthesis, Docking Study, Cytotoxicity, Antioxidant, and Anti-microbial Activities of Novel 2,4-Disubstituted Thiazoles Based on Phenothiazine. <i>Current Organic Synthesis</i> , 2020, 17, 151-159.	1.3	6
74	SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF FRIEDELIN [2, 3-d] SELENADIAZOLE. <i>Indonesian Journal of Chemistry</i> , 2009, 9, 285-288.	0.8	6
75	Elucidating the role of silicon dioxide and titanium dioxide nanoparticles in mitigating the disease of the eggplant caused by <i>Phomopsis vexans</i> , <i>Ralstonia solanacearum</i> , and root-knot nematode <i>Meloidogyne incognita</i> . <i>Nanotechnology Reviews</i> , 2022, 11, 1606-1619.	5.8	6
76	Silica-supported thionyl chloride-assisted synthesis and bioassay of novel tetrazinan-3-thione and 3-oxo-pyrazolidine-4-carbonitrile derivatives of steroids. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 55-62.	2.6	5
77	A new ladder-type dichloro(2,2-dimethyl-1,3-diaminopropane) copper complex: Synthesis, structural studies and selective sensing behavior towards a ketone molecule. <i>Polyhedron</i> , 2019, 170, 287-293.	2.2	5
78	Quantum Chemical Calculations, Spectroscopic Studies and Biological Activity of Organic-Inorganic Hybrid Compound (2,2-Dimethylpropane-1,3-diammonium) Tetrachlorozincate(II). <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 631-645.	3.0	5
79	Synthesis, structural investigations, DFT studies, and neurotrophic activity of zinc complex with a multidentate ligand. <i>Monatshefte für Chemie</i> , 2020, 151, 1715-1726.	1.8	5
80	Structure elucidation, DNA binding and molecular docking studies of natural compounds isolated from <i>Crateva religiosa</i> leaves. <i>Journal of Molecular Structure</i> , 2021, 1251, 131976.	3.6	5
81	Intramolecular cyclization of steroidal semicarbazones to pyrazoles using Vilsmeier reagent. <i>Chinese Chemical Letters</i> , 2008, 19, 133-136.	9.0	4
82	A FACILE SYNTHESIS OF 6,7-FUSED STEROIDAL THIAZOLES VIA 1,3-INTRAMOLECULAR MIGRATION OF BROMINE/ALLYLIC DISPLACEMENT OF BROMINE. <i>Journal of the Chilean Chemical Society</i> , 2008, 53, .	1.2	4
83	Synthesis, characterization, biological evaluation and in silico screening of oxadiazinanones. <i>Medicinal Chemistry Research</i> , 2013, 22, 3085-3095.	2.4	4
84	Regioselective formation of chlorohydrins from ring-opening of steroidal epoxides using silica-supported BiCl ₃ : A spectral and X-ray crystallographic study. <i>Tetrahedron Letters</i> , 2017, 58, 2872-2876.	1.4	4
85	Synthesis, Physical Chemistry, Molecular Docking, Bioactivities and Antioxidant Activity of Amino Phosphonates Based on Phenothiazine Using PEG ⁴⁰⁰ as Green Catalyst. <i>ChemistrySelect</i> , 2019, 4, 8915-8920.	1.5	4
86	One-Pot Synthesis of Benzopyrano-Pyrimidine Derivatives Catalyzed by P-Toluene Sulphonic Acid and Their Nematicidal and Molecular Docking Study. <i>Catalysts</i> , 2022, 12, 531.	3.5	4
87	Screening of biosynthesized zinc oxide nanoparticles for their effect on <i>Daucus carota</i> pathogen and molecular docking. <i>Microscopy Research and Technique</i> , 2022, 85, 3365-3373.	2.2	4
88	Synthesis of Steroidal Thiadiazoles from Steroidal Ketones. <i>Molecules</i> , 2005, 10, 803-808.	3.8	3
89	Synthesis, Spectral Characterization, and In Vitro Cytotoxicity of N-2-Hydroxyethyl-Substituted Azacholestanes Prepared from 6-Oxocholestanes by Modified Schmidt Reaction. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-7.	1.3	3
90	Synthesis, characterization, and cytotoxicity of N-2-hydroxyethyl-substituted azastigmastanes. <i>Medicinal Chemistry Research</i> , 2014, 23, 1950-1955.	2.4	3

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91	Synthesis and Characterization of Benzothiophene-3-carbonitrile Derivative and Its Interactions with Human Serum Albumin (HSA). <i>ChemistrySelect</i> , 2019, 4, 11979-11986.	1.5	3
92	Synthesis, characterization (IR, ¹ H, ¹³ C & ³¹ P NMR), fungicidal, herbicidal and molecular docking evaluation of steroid phosphorus compounds. <i>Open Chemistry</i> , 2019, 17, 621-628.	1.9	3
93	A bench-top catalyst: BF ₃ ·SiO ₂ -assisted synthesis, biological assay, and computational simulations of azacholestanes. <i>Applied Biological Chemistry</i> , 2016, 59, 117-127.	1.9	2
94	Aluminum chloride-functionalized silica gel synthesis as a catalyst for the preparation of biologically active oxazolidinethiones: Antioxidant and molecular docking studies. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 906-914.	5.2	2
95	Synthesis, Antibacterial Activity and Molecular Docking of Phospholidinones in Stigmastane Series. <i>Current Computer-Aided Drug Design</i> , 2019, 15, 259-264.	1.2	2
96	Antifungal screening and molecular docking simulation of silica supported synthesized sitosteryl hydrogen phthalate using microwave irradiation. <i>Hemijska Industrija</i> , 2020, 74, 377-388.	0.7	2
97	Spectroscopic Identifications, Molecular Docking, Neuronal Growth and Enzyme Inhibitory Activities of Steroidal Nitro Olefin: Quantum Chemical Study. <i>ChemistrySelect</i> , 2019, 4, 12062-12075.	1.5	1
98	Silica bonded N-(propylcarbamoyl)sulfamic acid (SBPCSA) as a highly efficient and recyclable solid catalyst for the synthesis of Benzylidene Acrylate derivatives: Docking and reverse docking integrated approach of network pharmacology. <i>Biophysical Chemistry</i> , 2020, 266, 106443.	2.8	1
99	Multispectroscopic and molecular modeling strategy to explore cholest-5-en-7-one and human serum albumin interactions: DFT and Hirshfeld surface analysis. <i>Journal of King Saud University - Science</i> , 2021, 33, 101661.	3.5	1
100	Isolation, characterization and X-ray analysis of Peltophorin from the leaves of <i>Peltophorum vogelianum</i> (Benth.). <i>Journal of Saudi Chemical Society</i> , 2013, 17, 303-305.	5.2	0