

Ali Saber Abdelhameed

List of Publications by Year in descending order

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92
papers

1,991
citations

236925

25
h-index

302126

39
g-index

97
all docs

97
docs citations

97
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Ascorbic acid inhibits human insulin aggregation and protects against amyloid induced cytotoxicity. Archives of Biochemistry and Biophysics, 2017, 621, 54-62.	3.0	119
2	Interplay of multiple interaction forces: Binding of tyrosine kinase inhibitor nintedanib with human serum albumin. Journal of Photochemistry and Photobiology B: Biology, 2016, 157, 70-76.	3.8	91
3	Structure of amyloid oligomers and their mechanisms of toxicities: Targeting amyloid oligomers using novel therapeutic approaches. European Journal of Medicinal Chemistry, 2016, 114, 41-58.	5.5	76
4	A novel global hydrodynamic analysis of the molecular flexibility of the dietary fibre polysaccharide konjac glucomannan. Food Hydrocolloids, 2009, 23, 1910-1917.	10.7	73
5	Investigating the site selective binding of busulfan to human serum albumin: Biophysical and molecular docking approaches. International Journal of Biological Macromolecules, 2018, 107, 1414-1421.	7.5	73
6	Interaction of new kinase inhibitors cabozantinib and tofacitinib with human serum alpha-1 acid glycoprotein. A comprehensive spectroscopic and molecular Docking approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 159, 199-208.	3.9	69
7	Fluorescence spectroscopic and molecular docking studies of the binding interaction between the new anaplastic lymphoma kinase inhibitor crizotinib and bovine serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 174-182.	3.9	65
8	A Comprehensive Spectroscopic and Computational Investigation to Probe the Interaction of Antineoplastic Drug Nordihydroguaiaretic Acid with Serum Albumins. PLoS ONE, 2016, 11, e0158833.	2.5	62
9	Binding of Janus kinase inhibitor tofacitinib with human serum albumin: multi-technique approach. Journal of Biomolecular Structure and Dynamics, 2016, 34, 2037-2044.	3.5	58
10	Probing the interaction of cephalosporin antibiotic cefotaxime with human serum albumin: A biophysical investigation. International Journal of Biological Macromolecules, 2017, 105, 292-299.	7.5	56
11	Isatin-benzoazine molecular hybrids as potential antiproliferative agents: synthesis and in vitro pharmacological profiling. Drug Design, Development and Therapy, 2017, Volume 11, 2333-2346.	4.3	50
12	Extended Fujita approach to the molecular weight distribution of polysaccharides and other polymeric systems. Methods, 2011, 54, 136-144.	3.8	45
13	An LC-MS/MS method for rapid and sensitive high-throughput simultaneous determination of various protein kinase inhibitors in human plasma. Biomedical Chromatography, 2017, 31, e3793.	1.7	41
14	Metabolic Stability Assessment of New PARP Inhibitor Talazoparib Using Validated LC-MS/MS Methodology: In silico Metabolic Vulnerability and Toxicity Studies. Drug Design, Development and Therapy, 2020, Volume 14, 783-793.	4.3	38
15	Reactive intermediates and bioactivation pathways characterization of avitinib by LC-MS/MS: In vitro metabolic investigation. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 659-667.	2.8	37
16	Polyols (Glycerol and Ethylene glycol) mediated amorphous aggregate inhibition and secondary structure restoration of metalloproteinase-conalbumin (ovotransferrin). International Journal of Biological Macromolecules, 2017, 94, 290-300.	7.5	35
17	A Spectroscopic Approach to Investigate the Molecular Interactions between the Newly Approved Irreversible ErbB blocker "Afatinib" and Bovine Serum Albumin. PLoS ONE, 2016, 11, e0146297.	2.5	34
18	A biophysical and computational study unraveling the molecular interaction mechanism of a new Janus kinase inhibitor Tofacitinib with bovine serum albumin. Journal of Molecular Recognition, 2017, 30, e2601.	2.1	33

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19	Molecular interactions of AL3818 (anlotinib) to human serum albumin as revealed by spectroscopic and molecular docking studies. <i>Journal of Molecular Liquids</i> , 2019, 273, 259-265.	4.9	32
20	Phase I metabolic profiling and unexpected reactive metabolites in human liver microsome incubations of X-376 using LC-MS/MS: bioactivation pathway elucidation and <i>in silico</i> toxicity studies of its metabolites. <i>RSC Advances</i> , 2020, 10, 5412-5427.	3.6	31
21	Nanosuspension: An Emerging Trend for Bioavailability Enhancement of Etodolac. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-16.	2.7	29
22	A highly efficient and sensitive LC-MS/MS method for the determination of afatinib in human plasma: application to a metabolic stability study. <i>Biomedical Chromatography</i> , 2016, 30, 1248-1255.	1.7	28
23	Investigation of the metabolic stability of olmutinib by validated LC-MS/MS: quantification in human plasma. <i>RSC Advances</i> , 2018, 8, 40387-40394.	3.6	28
24	Detection and characterization of olmutinib reactive metabolites by LC-MS/MS: Elucidation of bioactivation pathways. <i>Journal of Separation Science</i> , 2020, 43, 708-718.	2.5	28
25	Effect of galactose on acid induced molten globule state of Soybean Agglutinin: Biophysical approach. <i>Journal of Molecular Structure</i> , 2015, 1099, 149-153.	3.6	26
26	Biophysical and In Silico Studies of the Interaction between the Anti-Viral Agents Acyclovir and Penciclovir, and Human Serum Albumin. <i>Molecules</i> , 2017, 22, 1906.	3.8	26
27	An analytical ultracentrifuge study on ternary mixtures of konjac glucomannan supplemented with sodium alginate and xanthan gum. <i>Carbohydrate Polymers</i> , 2010, 81, 145-148.	10.2	24
28	On the hydrodynamic analysis of conformation in mixed biopolymer systems. <i>Polymer International</i> , 2011, 60, 2-8.	3.1	24
29	Liquid chromatographic-tandem mass spectrometric assay for simultaneous quantitation of tofacitinib, cabozantinib and afatinib in human plasma and urine. <i>Tropical Journal of Pharmaceutical Research</i> , 2017, 15, 2683.	0.3	24
30	Validated LC-MS/MS assay for quantification of the newly approved tyrosine kinase inhibitor, dacomitinib, and application to investigating its metabolic stability. <i>PLoS ONE</i> , 2019, 14, e0214598.	2.5	22
31	An asymmetric and slightly dimerized structure for the tetanus toxoid protein used in glycoconjugate vaccines. <i>Carbohydrate Polymers</i> , 2012, 90, 1831-1835.	10.2	21
32	A simple liquid chromatography-tandem mass spectrometry method to accurately determine the novel third-generation EGFR-TKI naquotinib with its applicability to metabolic stability assessment. <i>RSC Advances</i> , 2019, 9, 4862-4869.	3.6	21
33	Design, synthesis and in vitro anticancer evaluation of a stearic acid-based ester conjugate. <i>Anticancer Research</i> , 2013, 33, 2517-24.	1.1	21
34	Spectrofluorimetric study of finasteride and bovine serum albumin interaction and its application for quantitative determination of finasteride in tablet dosage form. <i>Analytical Methods</i> , 2015, 7, 5096-5102.	2.7	20
35	Solution properties of capsular polysaccharides from <i>Streptococcus pneumoniae</i> . <i>Carbohydrate Polymers</i> , 2012, 90, 237-242.	10.2	19
36	HPLC method with monolithic column for simultaneous determination of irbesartan and hydrochlorothiazide in tablets. <i>Acta Pharmaceutica</i> , 2014, 64, 187-198.	2.0	19

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37	Synthesis and Biophysical Insights into the Binding of a Potent Anti-Proliferative Non-symmetric Bis-isatin Derivative with Bovine Serum Albumin: Spectroscopic and Molecular Docking Approaches. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 617.	2.5	19
38	Interaction of catecholamine precursor L-Dopa with lysozyme: A biophysical insight. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1132-1139.	7.5	19
39	Spectroscopic and molecular docking studies of the binding of the angiotensin II receptor blockers (ARBs) azilsartan, eprosartan and olmesartan to bovine serum albumin. <i>Journal of Luminescence</i> , 2018, 203, 616-628.	3.1	19
40	Molecular Weight Distribution Evaluation of Polysaccharides and Glycoconjugates Using Analytical Ultracentrifugation. <i>Macromolecular Bioscience</i> , 2010, 10, 714-720.	4.1	18
41	Novel BTK inhibitor acalabrutinib (ACP-196) tightly binds to site I of the human serum albumin as observed by spectroscopic and computational studies. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 536-543.	7.5	18
42	Insight into the Interaction between the HIV-1 Integrase Inhibitor Elvitegravir and Bovine Serum Albumin: A Spectroscopic Study. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-9.	1.3	17
43	Anti-Parkinsonian L-Dopa can also act as anti-systemic amyloidosis—A mechanistic exploration. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 630-640.	7.5	17
44	High Throughput Quantitative Bioanalytical LC/MS/MS Determination of Gemifloxacin in Human Urine. <i>Journal of Chemistry</i> , 2013, 2013, 1-9.	1.9	16
45	Solution conformation and flexibility of capsular polysaccharides from <i>Neisseria meningitidis</i> and glycoconjugates with the tetanus toxoid protein. <i>Scientific Reports</i> , 2016, 6, 35588.	3.3	16
46	Exploring the interaction forces involved in the binding of the multiple myeloma drug lenalidomide to bovine serum albumin. <i>Journal of Molecular Liquids</i> , 2017, 238, 3-10.	4.9	16
47	A glycoconjugate of <i>Haemophilus influenzae</i> Type b capsular polysaccharide with tetanus toxoid protein: hydrodynamic properties mainly influenced by the carbohydrate. <i>Scientific Reports</i> , 2016, 6, 22208.	3.3	14
48	Mechanisms of protein misfolding: Novel therapeutic approaches to protein-misfolding diseases. <i>Journal of Molecular Structure</i> , 2016, 1123, 311-326.	3.6	14
49	Deciphering the enhanced inhibitory, disaggregating and cytoprotective potential of promethazine towards amyloid fibrillation. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 851-863.	7.5	14
50	Characterization of reactive intermediates formation in dacomitinib metabolism and bioactivation pathways elucidation by LC-MS/MS: <i>in vitro</i> phase I metabolic investigation. <i>RSC Advances</i> , 2018, 8, 38733-38744.	3.6	14
51	A highly sensitive LC-MS/MS method to determine novel Bruton's tyrosine kinase inhibitor spebrutinib: application to metabolic stability evaluation. <i>Royal Society Open Science</i> , 2019, 6, 190434.	2.4	14
52	Interaction of the recently approved anticancer drug nintedanib with human acute phase reactant α_1 -acid glycoprotein. <i>Journal of Molecular Structure</i> , 2016, 1115, 171-179.	3.6	13
53	Unraveling the binding characteristics of the anti-HIV agents abacavir, efavirenz and emtricitabine to bovine serum albumin using spectroscopic and molecular simulation approaches. <i>Journal of Molecular Liquids</i> , 2018, 251, 345-357.	4.9	13
54	Identification of Iminium Intermediates Generation in the Metabolism of Tepotinib Using LC-MS/MS: In Silico and Practical Approaches to Bioactivation Pathway Elucidation. <i>Molecules</i> , 2020, 25, 5004.	3.8	12

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55	Comparative ANNs with Different Input Layers and GA-PLS Study for Simultaneous Spectrofluorimetric Determination of Melatonin and Pyridoxine HCl in the Presence of Melatonin's Main Impurity. <i>Molecules</i> , 2013, 18, 974-996.	3.8	11
56	A new method to determine the new C-Met inhibitor Cabozantinib in dosage form and human plasma via micelle-enhanced spectrofluorimetry. <i>RSC Advances</i> , 2015, 5, 40484-40490.	3.6	11
57	Micellar Enhanced Spectrofluorimetric Method for the Determination of Ponatinib in Human Plasma and Urine via Cremophor RH 40 as Sensing Agent. <i>International Journal of Analytical Chemistry</i> , 2015, 2015, 1-9.	1.0	10
58	Biophysical insight reveals tannic acid as amyloid inducer and conformation transformer from amorphous to amyloid aggregates in Concanavalin A (ConA). <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1261-1273.	3.5	10
59	Spectroscopic and molecular docking studies reveal binding characteristics of nazartinib (EGF816) to human serum albumin. <i>Royal Society Open Science</i> , 2020, 7, 191595.	2.4	10
60	A Stability-Indicating HPLC-DAD Method for Determination of Stiripentol: Development, Validation, Kinetics, Structure Elucidation and Application to Commercial Dosage Form. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-10.	1.6	9
61	Experimental and Theoretical Studies of the Vibrational and Electronic Properties of (2E)-2-[3-(1H-imidazol-1-yl)-1-phenyl-propylidene]-N-phenylhydrazinecarboxamide: An Anticonvulsant Agent. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 955-972.	2.5	9
62	Simultaneous quantitative analysis of olmesartan, amlodipine and hydrochlorothiazide in their combined dosage form utilizing classical and alternating least squares based chemometric methods. <i>Acta Pharmaceutica</i> , 2016, 66, 83-95.	2.0	9
63	Development of novel univariate and multivariate validated chemometric methods for the analysis of dasatinib, sorafenib, and vandetanib in pure form, dosage forms and biological fluids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120336.	3.9	8
64	A validated LC-MS/MS analytical method for the quantification of pemigatinib: metabolic stability evaluation in human liver microsomes. <i>RSC Advances</i> , 2022, 12, 20387-20394.	3.6	8
65	Induced in-source fragmentation pattern of certain novel (1Z,2E)-N-(aryl)propanehydrazonoyl chlorides by electrospray mass spectrometry (ESI-MS/MS). <i>Chemistry Central Journal</i> , 2013, 7, 16.	2.6	7
66	A multitechnique approach to probe the interaction of a therapeutic tyrosine kinase inhibitor nintedanib and bovine serum albumin. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 655-663.	1.9	7
67	Simple and efficient spectroscopic-based univariate sequential methods for simultaneous quantitative analysis of vandetanib, dasatinib, and sorafenib in pharmaceutical preparations and biological fluids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119987.	3.9	7
68	Estimation of zorifertinib metabolic stability in human liver microsomes using LC-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 211, 114626.	2.8	7
69	Characterization of Capsular Polysaccharides and Their Glycoconjugates by Hydrodynamic Methods. <i>Methods in Molecular Biology</i> , 2015, 1331, 211-227.	0.9	6
70	Cationic surfactant mediated fibrillogenesis in bovine liver catalase: a biophysical approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 2543-2557.	3.5	6
71	Reactive intermediates in copanlisib metabolism identified by LC-MS/MS: phase I metabolic profiling. <i>RSC Advances</i> , 2019, 9, 6409-6418.	3.6	6
72	Structural, spectroscopic, Hirshfeld surface and charge distribution analysis of 3-(1H-imidazole-1-yl)-1-phenylpropan-1-ol complemented by molecular docking predictions: An integrated experimental and computational approach. <i>Journal of Molecular Structure</i> , 2019, 1196, 578-591.	3.6	5

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73	Azilsartan medoxomil. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 1-39.	8.0	5
74	A Validated HPLC-DAD Method for Simultaneous Determination of Etodolac and Pantoprazole in Rat Plasma. Journal of Chemistry, 2014, 2014, 1-8.	1.9	4
75	Biophysical Interactions of Novel Oleic Acid Conjugate and its Anticancer Potential in HeLa Cells. Journal of Fluorescence, 2015, 25, 519-525.	2.5	4
76	Synthesis, Spectroscopic Identification and Molecular Docking of Certain N-(2-[2-(1H-Indol-2-ylcarbonyl)Hydrazinyl](oxo)Acetylphenyl)Acetamides and N-[2-(2-[2-(Acetylamino)Phenyl](oxo)Acetylhydrazinyl)-2-Oxoethyl]-1H-Indole-2-Carboxamides: New Antimicrobial Agents. Molecules, 2018, 23, 1043.	3.8	4
77	<p>LC-MS/MS Estimation of the Anti-Cancer Agent Tandutinib Levels in Human Liver Microsomes: Metabolic Stability Evaluation Assay<p>. Drug Design, Development and Therapy, 2020, Volume 14, 4439-4449.	4.3	4
78	Spectroscopic, molecular docking and dynamic simulation studies of binding between the new anticancer agent olmutinib and human serum albumin. Journal of Biomolecular Structure and Dynamics, 2022, 40, 14236-14246.	3.5	4
79	Pseudo-MS3 Approach Using Electrospray Mass Spectrometry (ESI-MS/MS) to Characterize Certain (2E)-2-[3-(1H-imidazol-1-yl)-1-phenylpropylidene]hydrazinecarboxamide Derivatives. Journal of Chemistry, 2014, 2014, 1-10.	1.9	3
80	Liquid chromatographic-mass spectrometric method for determination of drug content uniformity of two commonly used dermatology medications in a split-tablet dosage form. Tropical Journal of Pharmaceutical Research, 2016, 15, 1283.	0.3	3
81	Liquid chromatographyâledquo;tandem mass spectrometry metabolic profiling of nazartinib reveals the formation of unexpected reactive metabolites. Royal Society Open Science, 2019, 6, 190852.	2.4	3
82	<p>Antiproliferative activity and possible mechanism of action of certain 5-methoxyindole tethered C-5 functionalized isatins<p>. Drug Design, Development and Therapy, 2019, Volume 13, 3069-3078.	4.3	3
83	Emtricitabine. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 55-91.	8.0	3
84	Biophysical Insight into the Interaction of Human Lysozyme with Anticancer Drug Anastrozole: A Multitechnique Approach. Scientific World Journal, The, 2020, 2020, 1-7.	2.1	3
85	<p>Characterization of Stable and Reactive Metabolites of the Anticancer Drug, Ensartinib, in Human Liver Microsomes Using LC-MS/MS: An in silico and Practical Bioactivation Approach<p>. Drug Design, Development and Therapy, 2020, Volume 14, 5259-5273.	4.3	3
86	Multistage Fragmentation of Ion Trap Mass Spectrometry System and Pseudo-MS ³ of Triple Quadrupole Mass Spectrometry Characterize Certain (<i>E</i>)-3-(Dimethylamino)-1-arylprop-2-en-1-ones: A Comparative Study. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	2
87	Characterization and Anticancer Potential of Newly Synthesized Propofol Conjugates. Asian Journal of Chemistry, 2014, 26, 2773-2780.	0.3	2
88	Biophysical insight into the interaction of levocabastine with human serum albumin: spectroscopy and molecular docking approach. Journal of Biomolecular Structure and Dynamics, 2021, 39, 1525-1534.	3.5	2
89	LCâledquo;MS/MS Estimation of Rociletinib Levels in Human Liver Microsomes: Application to Metabolic Stability Estimation. Drug Design, Development and Therapy, 2021, Volume 15, 3915-3925.	4.3	2
90	Potent Activity of a Novel Vanadyl (IV)-Vitamin D ₃ Complex Against Streptozotocin-Induced Diabetes in Rats: Synthesis, Characterization and Biological Assessments. Journal of Biobased Materials and Bioenergy, 2019, 13, 820-829.	0.3	2

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91	Spectroscopic and computational investigation of the interaction between the new anticancer agent enasidenib and human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120790.	3.9	2
92	A novel method to determine new potent angiotensin inhibitor, azilsartan, in human plasma via micelle-enhanced spectrofluorimetry using cremophor RH 40. <i>Tropical Journal of Pharmaceutical Research</i> , 2016, 15, 1003.	0.3	1