Ali Saber Abdelhameed

List of Publications by Year
in descending order

92	1,991	270111 25	340414 39
papers	citations	h-index	g-index

97	97	97	2365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120336.	2.0	8
2	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.	2.0	4
3	Spectroscopic and computational investigation of the interaction between the new anticancer agent enasidenib and human serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120790.	2.0	2
4	Estimation of zorifertinib metabolic stability in human liver microsomes using LCâ€“MS/MS. Journal of Pharmaceutical and Biomedical Analysis, 2022, 211, 114626.	1.4	7
5	A validated LC-MS/MS analytical method for the quantification of pemigatinib: metabolic stability evaluation in human liver microsomes. RSC Advances, 2022, 12, 20387-20394.	1.7	8
6	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.	2.0	2
7	LCâ€“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.	2.0	2
8	Simple and efficient spectroscopic-based univariate sequential methods for simultaneous quantitative analysis of vandetanib, dasatinib, and sorafenib in pharmaceutical preparations and biological fluids. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119987.	2.0	7
9	Detection and characterization of olmutinib reactive metabolites by LCâ€“MS/MS: Elucidation of bioactivation pathways. Journal of Separation Science, 2020, 43, 708-718.	1.3	28
10	Azilsartan medoxomil. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 1-39.	3.5	5
11	Emtricitabine. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 55-91.	3.5	3
12	LC-MS/MS Estimation of the Anti-Cancer Agent Tandutinib Levels in Human Liver Microsomes: Metabolic Stability Evaluation Assay . Drug Design, Development and Therapy, 2020, Volume 14, 4439-4449.	2.0	4
13	Biophysical Insight into the Interaction of Human Lysozyme with Anticancer Drug Anastrozole: A Multitechnique Approach. Scientific World Journal, The, 2020, 2020, 1-7.	0.8	3
14	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 . Drug Design, Development and Therapy, 2020, Volume 14, 5259-5273.	2.0	3
15	Identification of Iminium Intermediates Generation in the Metabolism of Tepotinib Using LC-MS/MS: In Silico and Practical Approaches to Bioactivation Pathway Elucidation. Molecules, 2020, 25, 5004.	1.7	12
16	Metabolic Stability Assessment of New PARP Inhibitor Talazoparib Using Validated LCâ€“MS/MS Methodology: In silico Metabolic Vulnerability and Toxicity Studies . Drug Design, Development and Therapy, 2020, Volume 14, 783-793.	2.0	38
17	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. RSC Advances, 2020, 10, 5412-5427.	1.7	31
18	Spectroscopic and molecular docking studies reveal binding characteristics of nazartinib (EGF816) to human serum albumin. Royal Society Open Science, 2020, 7, 191595.	1.1	10

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19	Liquid chromatographyâ€“tandem mass spectrometry metabolic profiling of nazartinib reveals the formation of unexpected reactive metabolites. Royal Society Open Science, 2019, 6, 190852.	1.1	3
20	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. Journal of Molecular Structure, 2019, 1196, 578-591.	1.8	5
21	Antiproliferative activity and possible mechanism of action of certain 5-methoxyindole tethered C-5 functionalized isatins . Drug Design, Development and Therapy, 2019, Volume 13, 3069-3078.	2.0	3
22	Novel BTK inhibitor acalabrutinib (ACP-196) tightly binds to site I of the human serum albumin as observed by spectroscopic and computational studies. International Journal of Biological Macromolecules, 2019, 127, 536-543.	3.6	18
23	A highly sensitive LC-MS/MS method to determine novel Bruton's tyrosine kinase inhibitor spebrutinib: application to metabolic stability evaluation. Royal Society Open Science, 2019, 6, 190434.	1.1	14
24	Validated LC-MS/MS assay for quantification of the newly approved tyrosine kinase inhibitor, dacomitinib, and application to investigating its metabolic stability. PLoS ONE, 2019, 14, e0214598.	1.1	22
25	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. RSC Advances, 2019, 9, 4862-4869.	1.7	21
26	Reactive intermediates in copanlisib metabolism identified by LC-MS/MS: phase I metabolic profiling. RSC Advances, 2019, 9, 6409-6418.	1.7	6
27	Reactive intermediates and bioactivation pathways characterization of avitinib by LCâ€“MS/MS: In vitro metabolic investigation. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 659-667.	1.4	37
28	Molecular interactions of AL3818 (anlotinib) to human serum albumin as revealed by spectroscopic and molecular docking studies. Journal of Molecular Liquids, 2019, 273, 259-265.	2.3	32
29	Potent Activity of a Novel Vanadyl (IV)-Vitamin D₃ Complex Against Streptozotocin-Induced Diabetes in Rats: Synthesis, Characterization and Biological Assessments. Journal of Biobased Materials and Bioenergy, 2019, 13, 820-829.	0.1	2
30	Unraveling the binding characteristics of the anti-HIV agents abacavir, efavirenz and emtricitabine to bovine serum albumin using spectroscopic and molecular simulation approaches. Journal of Molecular Liquids, 2018, 251, 345-357.	2.3	13
31	Biophysical insight reveals tannic acid as amyloid inducer and conformation transformer from amorphous to amyloid aggregates in Concanavalin A (ConA). Journal of Biomolecular Structure and Dynamics, 2018, 36, 1261-1273.	2.0	10
32	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.	3.6	73
33	Deciphering the enhanced inhibitory, disaggregating and cytoprotective potential of promethazine towards amyloid fibrillation. International Journal of Biological Macromolecules, 2018, 106, 851-863.	3.6	14
34	Interaction of catecholamine precursor l-Dopa with lysozyme: A biophysical insight. International Journal of Biological Macromolecules, 2018, 109, 1132-1139.	3.6	19
35	Cationic surfactant mediated fibrillogenesis in bovine liver catalase: a biophysical approach. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2543-2557.	2.0	6
36	Characterization of reactive intermediates formation in dacomitinib metabolism and bioactivation pathways elucidation by LC-MS/MS: in vitro phase I metabolic investigation. RSC Advances, 2018, 8, 38733-38744.	1.7	14

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37	Investigation of the metabolic stability of olmutinib by validated LC-MS/MS: quantification in human plasma. RSC Advances, 2018, 8, 40387-40394.	1.7	28
38	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.	1.7	4
39	Spectroscopic and molecular docking studies of the binding of the angiotensin II receptor blockers (ARBs) azilsartan, eprosartan and olmesartan to bovine serum albumin. Journal of Luminescence, 2018, 203, 616-628.	1.5	19
40	Anti-Parkinsonian L-Dopa can also act as anti-systemic amyloidosisâ€"A mechanistic exploration. International Journal of Biological Macromolecules, 2017, 99, 630-640.	3.6	17
41	Ascorbic acid inhibits human insulin aggregation and protects against amyloid induced cytotoxicity. Archives of Biochemistry and Biophysics, 2017, 621, 54-62.	1.4	119
42	Exploring the interaction forces involved in the binding of the multiple myeloma drug lenalidomide to bovine serum albumin. Journal of Molecular Liquids, 2017, 238, 3-10.	2.3	16
43	A multitechnique approach to probe the interaction of a therapeutic tyrosine kinase inhibitor nintedanib and bovine serum albumin. Preparative Biochemistry and Biotechnology, 2017, 47, 655-663.	1.0	7
44	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.	1.1	33
45	Probing the interaction of cephalosporin antibioticâ€"ceftazidime with human serum albumin: A biophysical investigation. International Journal of Biological Macromolecules, 2017, 105, 292-299.	3.6	56
46	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.	2.0	65
47	An LCâ€"MS/MS method for rapid and sensitive highâ€throughput simultaneous determination of various protein kinase inhibitors in human plasma. Biomedical Chromatography, 2017, 31, e3793.	0.8	41
48	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.	3.6	35
49	Isatin-benzoazine molecular hybrids as potential antiproliferative agents: synthesis and in vitro pharmacological profiling. Drug Design, Development and Therapy, 2017, Volume 11, 2333-2346.	2.0	50
50	Biophysical and In Silico Studies of the Interaction between the Anti-Viral Agents Acyclovir and Penciclovir, and Human Serum Albumin. Molecules, 2017, 22, 1906.	1.7	26
51	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. Applied Sciences (Switzerland), 2017, 7, 617.	1.3	19
52	Liquid chromatographic-tandem mass spectrometric assay for simultaneous quantitation of tofacitinib, cabozantinib and afatinib in human plasma and urine. Tropical Journal of Pharmaceutical Research, 2017, 15, 2683.	0.2	24
53	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.	0.2	3
54	A novel method to determine new potent angiotensin inhibitor, azilsartan, in human plasma via micelle-enhanced spectrofluorimetry using cremophor RH 40. Tropical Journal of Pharmaceutical Research, 2016, 15, 1003.	0.2	1

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55	A highly efficient and sensitive LCâ€MS/MS method for the determination of afatinib in human plasma: application to a metabolic stability study. Biomedical Chromatography, 2016, 30, 1248-1255.	0.8	28
56	A glycoconjugate of Haemophilus influenzae Type b capsular polysaccharide with tetanus toxoid protein: hydrodynamic properties mainly influenced by the carbohydrate. Scientific Reports, 2016, 6, 22208.	1.6	14
57	Solution conformation and flexibility of capsular polysaccharides from Neisseria meningitidis and glycoconjugates with the tetanus toxoid protein. Scientific Reports, 2016, 6, 35588.	1.6	16
58	Mechanisms of protein misfolding: Novel therapeutic approaches to protein-misfolding diseases. Journal of Molecular Structure, 2016, 1123, 311-326.	1.8	14
59	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.	2.0	69
60	Simultaneous quantitative analysis of olmesartan, amlodipine and hydrochlorothiazide in their combined dosage form utilizing classical and alternating least squares based chemometric methods. Acta Pharmaceutica, 2016, 66, 83-95.	0.9	9
61	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.	1.7	91
62	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.	2.6	76
63	Interaction of the recently approved anticancer drug nintedanib with human acute phase reactant Î± 1-acid glycoprotein. Journal of Molecular Structure, 2016, 1115, 171-179.	1.8	13
64	Binding of Janus kinase inhibitor tofacitinib with human serum albumin: multi-technique approach. Journal of Biomolecular Structure and Dynamics, 2016, 34, 2037-2044.	2.0	58
65	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.	1.1	34
66	A Comprehensive Spectroscopic and Computational Investigation to Probe the Interaction of Antineoplastic Drug Nordihydroguaiaretic Acid with Serum Albumins. PLoS ONE, 2016, 11, e0158833.	1.1	62
67	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. Applied Sciences (Switzerland), 2015, 5, 955-972.	1.3	9
68	Micellar Enhanced Spectrofluorimetric Method for the Determination of Ponatinib in Human Plasma and Urine via Cremophor RH 40 as Sensing Agent. International Journal of Analytical Chemistry, 2015, 2015, 1-9.	0.4	10
69	Nanosuspension: An Emerging Trend for Bioavailability Enhancement of Etodolac. International Journal of Polymer Science, 2015, 2015, 1-16.	1.2	29
70	Insight into the Interaction between the HIV-1 Integrase Inhibitor Elvitegravir and Bovine Serum Albumin: A Spectroscopic Study. Journal of Spectroscopy, 2015, 2015, 1-9.	0.6	17
71	Spectrofluorimetric study of finasteride and bovine serum albumin interaction and its application for quantitative determination of finasteride in tablet dosage form. Analytical Methods, 2015, 7, 5096-5102.	1.3	20
72	Biophysical Interactions of Novel Oleic Acid Conjugate and its Anticancer Potential in HeLa Cells. Journal of Fluorescence, 2015, 25, 519-525.	1.3	4

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73	Effect of galactose on acid induced molten globule state of Soybean Agglutinin: Biophysical approach. Journal of Molecular Structure, 2015, 1099, 149-153.	1.8	26
74	A new method to determine the new C-Met inhibitor â€œCabozantinibâ€•in dosage form and human plasma via micelle-enhanced spectrofluorimetry. RSC Advances, 2015, 5, 40484-40490.	1.7	11
75	Characterization of Capsular Polysaccharides and Their Glycoconjugates by Hydrodynamic Methods. Methods in Molecular Biology, 2015, 1331, 211-227.	0.4	6
76	Pseudo-MS3Approach 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.	0.9	3
77	Multistage Fragmentation of Ion Trap Mass Spectrometry System and Pseudo-MS³of Triple Quadrupole Mass Spectrometry Characterize Certain (E)-3-(Dimethylamino)-1-arylprop-2-en-1-ones: A Comparative Study. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	2
78	Characterization and Anticancer Potential of Newly Synthesized Propofol Conjugates. Asian Journal of Chemistry, 2014, 26, 2773-2780.	0.1	2
79	A Validated HPLC-DAD Method for Simultaneous Determination of Etodolac and Pantoprazole in Rat Plasma. Journal of Chemistry, 2014, 2014, 1-8.	0.9	4
80	A Stability-Indicating HPLC-DAD Method for Determination of Stiripentol: Development, Validation, Kinetics, Structure Elucidation and Application to Commercial Dosage Form. Journal of Analytical Methods in Chemistry, 2014, 2014, 1-10.	0.7	9
81	HPLC method with monolithic column for simultaneous determination of irbesartan and hydrochlorothiazide in tablets. Acta Pharmaceutica, 2014, 64, 187-198.	0.9	19
82	Induced in-source fragmentation pattern of certain novel (1Z,2E)-N-(aryl)propanehydrazonoyl chlorides by electrospray mass spectrometry (ESI-MS/MS). Chemistry Central Journal, 2013, 7, 16.	2.6	7
83	High Throughput Quantitative Bioanalytical LC/MS/MS Determination of Gemifloxacin in Human Urine. Journal of Chemistry, 2013, 2013, 1-9.	0.9	16
84	Comparative ANNs with Different Input Layers and GA-PLS Study for Simultaneous Spectrofluorimetric Determination of Melatonin and Pyridoxine HCl in the Presence of Melatoninâ€™s Main Impurity. Molecules, 2013, 18, 974-996.	1.7	11
85	Design, synthesis and in vitro anticancer evaluation of a stearic acid-based ester conjugate. Anticancer Research, 2013, 33, 2517-24.	0.5	21
86	Solution properties of capsular polysaccharides from Streptococcus pneumoniae. Carbohydrate Polymers, 2012, 90, 237-242.	5.1	19
87	An asymmetric and slightly dimerized structure for the tetanus toxoid protein used in glycoconjugate vaccines. Carbohydrate Polymers, 2012, 90, 1831-1835.	5.1	21
88	Extended Fujita approach to the molecular weight distribution of polysaccharides and other polymeric systems. Methods, 2011, 54, 136-144.	1.9	45
89	On the hydrodynamic analysis of conformation in mixed biopolymer systems. Polymer International, 2011, 60, 2-8.	1.6	24
90	Molecular Weight Distribution Evaluation of Polysaccharides and Glycoconjugates Using Analytical Ultracentrifugation. Macromolecular Bioscience, 2010, 10, 714-720.	2.1	18

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91	An analytical ultracentrifuge study on ternary mixtures of konjac glucomannan supplemented with sodium alginate and xanthan gum. Carbohydrate Polymers, 2010, 81, 145-148.	5.1	24
92	A novel global hydrodynamic analysis of the molecular flexibility of the dietary fibre polysaccharide konjac glucomannan. Food Hydrocolloids, 2009, 23, 1910-1917.	5.6	73