Ahmed H H Bakheit

List of Publications by Year
in descending order

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96 papers	1,873 citations	218381 26 h-index	315357 38 g-index
98 all docs	98 docs citations	98 times ranked	1677 citing authors

#	Article	IF	Citations
1	Study of Interactions of an Anticancer Drug Neratinib With Bovine Serum Albumin: Spectroscopic and Molecular Docking Approach. Frontiers in Chemistry, 2018, 6, 47.	1.8	89
2	Multi-spectroscopic investigation, molecular docking and molecular dynamic simulation of competitive interactions between flavonoids (quercetin and rutin) and sorafenib for binding to human serum albumin. International Journal of Biological Macromolecules, 2020, 165, 2451-2461.	3.6	78
3	Azithromycin. Profiles of Drug Substances, Excipients and Related Methodology, 2014, 39, 1-40.	3.5	77
4	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
5	Spectrophotometric and molecular modelling studies on in vitro interaction of tyrosine kinase inhibitor linifanib with bovine serum albumin. PLoS ONE, 2017, 12, e0176015.	1.1	64
6	Interaction of an abiraterone with calf thymus DNA: Investigation with spectroscopic technique and modelling studies. Bioorganic Chemistry, 2020, 100, 103957.	2.0	61
7	Binding and drug displacement study of colchicine and bovine serum albumin in presence of azithromycin using multispectroscopic techniques and molecular dynamic simulation. Journal of Molecular Liquids, 2021, 333, 115934.	2.3	54
8	Influence of antioxidant flavonoids quercetin and rutin on the in-vitro binding of neratinib to human serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 118977.	2.0	53
9	Study of binding interaction of rivaroxaban with bovine serum albumin using multi-spectroscopic and molecular docking approach. Chemistry Central Journal, 2017, 11, 134.	2.6	51
10	Poziotinib and bovine serum albumin binding characterization and influence of quercetin, rutin, naringenin and sinapic acid on their binding interaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 235, 118335.	2.0	50
11	Study of the Interactions of Bovine Serum Albumin with the New Anti-Inflammatory Agent 4-(1,3-Dioxo-1,3-dihydro-2H-isoindol-2-yl)-Nâ€²-[(4-ethoxy-phenyl)methylidene]benzohydrazide Using a Multi-Spectroscopic Approach and Molecular Docking. Molecules, 2017, 22, 1258.	1.7	49
12	A potential anticancer dihydropyrimidine derivative and its protein binding mechanism by multispectroscopic, molecular docking and molecular dynamic simulation along with its in-silico toxicity and metabolic profile. European Journal of Pharmaceutical Sciences, 2021, 158, 105686.	1.9	47
13	Molecular docking and experimental investigation of new indole derivative cyclooxygenase inhibitor to probe its binding mechanism with bovine serum albumin. Bioorganic Chemistry, 2019, 89, 103010.	2.0	45
14	Propranolol. Profiles of Drug Substances, Excipients and Related Methodology, 2017, 42, 287-338.	3.5	42
15	Spectroscopic and molecular modeling studies of binding interaction between bovine serum albumin and roflumilast. Drug Design, Development and Therapy, 2018, Volume 12, 2627-2634.	2.0	42
16	Evaluation of Biophysical Interaction between Newly Synthesized Pyrazoline Pyridazine Derivative and Bovine Serum Albumin by Spectroscopic and Molecular Docking Studies. Journal of Spectroscopy, 2019, 2019, 1-12.	0.6	41
17	Binding of colchicine and ascorbic acid (vitamin C) to bovine serum albumin: An in-vitro interaction study using multispectroscopic, molecular docking and molecular dynamics simulation study. Journal of Molecular Liquids, 2021, 342, 117542.	2.3	40
18	Interaction Characterization of a Tyrosine Kinase Inhibitor Erlotinib with a Model Transport Protein in the Presence of Quercetin: A Drugâ€“Protein and Drugâ€“Drug Interaction Investigation Using Multi-Spectroscopic and Computational Approaches. Molecules, 2022, 27, 1265.	1.7	37

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19	Mechanistic competitive binding interaction study between olmutinib and colchicine with model transport protein using spectroscopic and computer simulation approaches. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113794.	2.0	35
20	Antioxidant activities and molecular docking of 2-thioxobenzo[g]quinazoline derivatives. Pharmacological Reports, 2019, 71, 695-700.	1.5	33
21	Mechanistic interaction study of 5,6-Dichloro-2-[2-(pyridin-2-yl)ethyl]isoindoline-1,3-dione with bovine serum albumin by spectroscopic and molecular docking approaches. Saudi Pharmaceutical Journal, 2019, 27, 341-347.	1.2	33
22	Influence of Rutin, Sinapic Acid, and Naringenin on Binding of Tyrosine Kinase Inhibitor Erlotinib to Bovine Serum Albumin Using Analytical Techniques Along with Computational Approach. Applied Sciences (Switzerland), 2022, 12, 3575.	1.3	33
23	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
24	Evaluation of competitive binding interaction of neratinib and tamoxifen to serum albumin in multidrug therapy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117691.	2.0	32
25	Indole Derivatives as Cyclooxygenase Inhibitors: Synthesis, Biological Evaluation and Docking Studies. Molecules, 2018, 23, 1250.	1.7	30
26	A Spectroscopic, Thermodynamic and Molecular Docking Study of the Binding Mechanism of Dapoxetine with Calf Thymus DNA. South African Journal of Chemistry, 2020, 73, .	0.3	29
27	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
28	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
29	Imatinib Mesylate. Profiles of Drug Substances, Excipients and Related Methodology, 2014, 39, 265-297.	3.5	23
30	Telmisartan. Profiles of Drug Substances, Excipients and Related Methodology, 2015, 40, 371-429.	3.5	23
31	Multivariate Versus Classical Univariate Calibration Methods for Spectrofluorimetric Data: Application to Simultaneous Determination of Olmesartan Medoxamil and Amlodipine Besylate in their Combined Dosage Form. Journal of Fluorescence, 2013, 23, 79-91.	1.3	19
32	Pioglitazone. Profiles of Drug Substances, Excipients and Related Methodology, 2016, 41, 379-438.	3.5	19
33	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
34	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
35	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
36	Investigation of 4-Hydrazinobenzoic Acid Derivatives for Their Antioxidant Activity: In Vitro Screening and DFT Study. ACS Omega, 2021, 6, 31993-32004.	1.6	18

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37	Antiproliferative and Antiangiogenic Properties of New VEGFR-2-targeting 2-thioxobenzo[g]quinazoline Derivatives (In Vitro). Molecules, 2020, 25, 5944.	1.7	17
38	Micellar enhanced synchronous spectrofluorimetric method for determination of dasatinib in tablets, human plasma and urine: application to in vitro drug release and content uniformity test. RSC Advances, 2015, 5, 54471-54480.	1.7	16
39	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
40	Synthesis, Docking, Computational Studies, and Antimicrobial Evaluations of New Dipeptide Derivatives Based on Nicotinoylglycylglycine Hydrazide. Molecules, 2020, 25, 3589.	1.7	16
41	In silico and in vitro metabolism of ribociclib: a mass spectrometric approach to bioactivation pathway elucidation and metabolite profiling. RSC Advances, 2020, 10, 22668-22683.	1.7	16
42	Mirtazapine. Profiles of Drug Substances, Excipients and Related Methodology, 2018, 43, 209-254.	3.5	15
43	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
44	Virtual Screening and Molecular Docking Studies for Discovery of Potential RNA-Dependent RNA Polymerase Inhibitors. Crystals, 2021, 11, 471.	1.0	12
45	Response surface methodology for optimization of micellar-enhanced spectrofluorimetric method for assay of foretinib in bulk powder and human urine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 257, 119811.	2.0	12
46	In silico study and biological screening of benzoquinazolines as potential antimicrobial agents against methicillin-resistant Staphylococcus aureus, carbapenem-resistant Klebsiella pneumoniae, and fluconazole-resistant Candida albicans. Microbial Pathogenesis, 2021, 160, 105157.	1.3	12
47	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
48	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
49	Synthesis and biological evaluation of 4-(1H-1,2,4-triazol-1-yl)benzoic acid hybrids as anticancer agents. RSC Advances, 2019, 9, 19065-19074.	1.7	11
50	Investigation of some benzoquinazoline and quinazoline derivatives as novel inhibitors of HCV-NS3/4A protease: biological, molecular docking and QSAR studies. RSC Advances, 2020, 10, 35820-35830.	1.7	11
51	Anticancer Activities of Newly Synthesized Chiral Macrocyclic Heptapeptide Candidates. Molecules, 2020, 25, 1253.	1.7	11
52	Biological Evaluation of 4-(1H-triazol-1-yl)benzoic Acid Hybrids as Antioxidant Agents: In Vitro Screening and DFT Study. Applied Sciences (Switzerland), 2021, 11, 11642.	1.3	11
53	A highly sensitive fluorimetric method for determination of lenalidomide in its bulk form and capsules via derivatization with fluorescamine. Chemistry Central Journal, 2012, 6, 118.	2.6	10
54	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

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55	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
56	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
57	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
58	Selection of SARS-CoV-2 main protease inhibitor using structure-based virtual screening. Future Medicinal Chemistry, 2022, 14, 61-79.	1.1	9
59	Highly Sensitive and Simple Validated Ultra-performance Liquid Chromatography/ Tandem Mass Spectrometry Method for the Determination of Cinacalcet in Human Plasma. Current Pharmaceutical Analysis, 2014, 10, 51-57.	0.3	8
60	Synthesis Characterization and X-ray Structure of 2-(2,6-Dichlorophenylamino)-2-imidazoline Tetraphenylborate: Computational Study. Applied Sciences (Switzerland), 2022, 12, 3568.	1.3	8
61	A new spectrofluorimetric assay method for vandetanib in tablets, plasma and urine. Tropical Journal of Pharmaceutical Research, 2016, 15, 2219.	0.2	7
62	Enhanced spectrofluorimetric determination of the multitargeted tyrosine kinase inhibitor, crizotinib, in human plasma via micelle-mediated approach. Tropical Journal of Pharmaceutical Research, 2016, 15, 2209.	0.2	7
63	Validated liquid chromatography tandem mass spectrometry for simultaneous quantification of foretinib and lapatinib, and application to metabolic stability investigation. RSC Advances, 2019, 9, 19325-19332.	1.7	7
64	Development of innovative artificial neural networks for simultaneous determination of lapatinib and foretinib in human urine by micellar enhanced synchronous spectrofluorimetry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 238, 118438.	2.0	7
65	Cyclodextrin potentiometric sensors based on selective recognition sites for procainamide: Comparative and theoretical study. Open Chemistry, 2019, 17, 1222-1234.	1.0	7
66	A Major Diplotaxis harra-Derived Bioflavonoid Glycoside as a Protective Agent against Chemically Induced Neurotoxicity and Parkinsonâ€™s Models; In Silico Target Prediction; and Biphasic HPTLC-Based Quantification. Plants, 2022, 11, 648.	1.6	7
67	Olmesartan. Profiles of Drug Substances, Excipients and Related Methodology, 2017, 42, 241-286.	3.5	6
68	Exploiting the 4-hydrazinobenzoic acid moiety for the development of anticancer agents: Synthesis and biological profile. Bioorganic Chemistry, 2020, 102, 104098.	2.0	6
69	Irbesartan (a comprehensive profile). Profiles of Drug Substances, Excipients and Related Methodology, 2021, 46, 185-272.	3.5	6
70	Darunavir: A comprehensive profile. Profiles of Drug Substances, Excipients and Related Methodology, 2021, 46, 1-50.	3.5	6
71	Charge Transfer Complexes of Ketotifen with 2,3-Dichloro-5,6-dicyano-p-benzoquinone and 7,7,8,8-Tetracyanoquodimethane: Spectroscopic Characterization Studies. Molecules, 2021, 26, 2039.	1.7	6
72	Comparative study of Î²-cyclodextrin, Î³-cyclodextrin and 4-tert-butylcalix[8]arene ionophores as electroactive materials for the construction of new sensors for trazodone based on host-guest recognition . Drug Design, Development and Therapy, 2019, Volume 13, 2283-2293.	2.0	5

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73	Development of novel response surface methodology-assisted micellar enhanced synchronous spectrofluorimetric method for determination of vandetanib in tablets, human plasma and urine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 272-280.	2.0	5
74	Kinase Inhibitors of Novel Pyridopyrimidinone Candidates: Synthesis and In Vitro Anticancer Properties. Journal of Chemistry, 2019, 2019, 1-10.	0.9	5
75	Azilsartan medoxomil. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 1-39.	3.5	5
76	Reactivity of 4,5-Dichlorophthalic Anhydride towards Thiosemicarbazide and Amines: Synthesis, Spectroscopic Analysis, and DFT Study. Molecules, 2022, 27, 3550.	1.7	5
77	Comparative Study of Novel Ratio Spectra and Isoabsorptive Point Based Spectrophotometric Methods: Application on a Binary Mixture of Ascorbic Acid and Rutin. Journal of Analytical Methods in Chemistry, 2016, 2016, 1-12.	0.7	4
78	Rabeprazole: A comprehensive profile. Profiles of Drug Substances, Excipients and Related Methodology, 2021, 46, 137-183.	3.5	4
79	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
80	Loratadine. Profiles of Drug Substances, Excipients and Related Methodology, 2022, 47, 55-90.	3.5	4
81	Emtricitabine. Profiles of Drug Substances, Excipients and Related Methodology, 2020, 45, 55-91.	3.5	3
82	Experimental and computational evaluation of kolliphor RH 40 as a new fluorescence enhancer in development of a micellar-based spectrofluorimetric method for determination of lapatinib in tablets and urine. PLoS ONE, 2020, 15, e0239918.	1.1	3
83	Vinpocetine (A comprehensive profile). Profiles of Drug Substances, Excipients and Related Methodology, 2022, 47, 1-54.	3.5	3
84	DNA Binding Test, X-Ray Crystal Structure, Spectral Studies, TG-DTA, and Electrochemistry of [CoX2(dmdphphen)] (Dmdphphen Is 2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline, X = Cl, and NCS) Complexes. Bioinorganic Chemistry and Applications, 2014, 2014, 1-7.	1.8	2
85	Highly Sensitive Micellar Enhanced Spectrofluorimetric Method for Determination of Mirtazapine in Tablets and Human Urine: Application to In Vitro Drug Release and Content Uniformity Test. Journal of Chemistry, 2016, 2016, 1-8.	0.9	2
86	Bisoprolol: A comprehensive profile. Profiles of Drug Substances, Excipients and Related Methodology, 2021, 46, 51-89.	3.5	2
87	Betaxolol: A comprehensive profile. Profiles of Drug Substances, Excipients and Related Methodology, 2021, 46, 91-136.	3.5	2
88	Stability Indicating Spectrofluorimetric Analysis of Metopimazine by Signal Enhanced - Partial Least Squares Chemometric Models: A Comparative Study. Current Pharmaceutical Analysis, 2016, 12, 234-243.	0.3	2
89	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
90	Quantification of total mercury in compact fluorescent lamps in Saudi Arabia using inductively coupled plasma mass spectrometry (ICP-MS). Main Group Chemistry, 2016, 15, 117-124.	0.4	1

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91	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
92	Full spectrum and genetic algorithm-selected spectrum-based chemometric methods for simultaneous determination of azilsartan medoxomil, chlorthalidone, and azilsartan: Development, validation, and application on commercial dosage form. Open Chemistry, 2021, 19, 205-213.	1.0	1
93	Bioanalytical Method Development and Validation for the Determination of Vasopressin Receptor Antagonist Conivaptan in Mouse Plasma at NanoLevel and its Pharmacokinetic Application. Current Analytical Chemistry, 2019, 15, 591-598.	0.6	1
94	Lodenafil. Profiles of Drug Substances, Excipients and Related Methodology, 2022, 47, 113-147.	3.5	1
95	Spectrofluorimetric methods for the determination of lixivaptan and its hydrolysis product in human plasma and urine, with factors optimization study. Journal of Molecular Liquids, 2018, 249, 764-771.	2.3	0
96	New Pyridopyrimidone Derivatives: Synthesis, Molecular Docking Studies, and Potential Anticancer Activity. Russian Journal of General Chemistry, 2019, 89, 1683-1690.	0.3	0