

Karuvanthodi Muraleedharan

List of Publications by Year in descending order

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95
papers

1,460
citations

471509

17
h-index

395702

33
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97
all docs

97
docs citations

97
times ranked

1788
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of cashew leaf extract on physicochemical, antioxidant, and antimicrobial properties of N, O- α -Carboxymethyl chitosan films. <i>Carbohydrate Polymer Technologies and Applications</i> , 2022, 3, 100191.	2.6	10
2	Theoretical probing to the reactivity and biological effects of the phytochemical, coumestrol and its derivatives. <i>Chemical Physics Impact</i> , 2022, 4, 100080.	3.5	2
3	Phytochemicals as potential inhibitors for COVID-19 revealed by molecular docking, molecular dynamic simulation and DFT studies. <i>Structural Chemistry</i> , 2022, 33, 1423-1443.	2.0	9
4	Structure and non-covalent interactions of (E,Z)3-benzoyl-1,5-bis(4-ethoxyphenyl)formazan: A crystallographic and DFT/TD-DFT study. <i>Journal of Molecular Structure</i> , 2022, 1266, 133501.	3.6	0
5	Quantum chemical investigation of the antiradical property of avenanthramides, oat phenolics. <i>Heliyon</i> , 2021, 7, e06125.	3.2	9
6	Fluorescent carbon nanodots as efficient nitro aromatic sensor- analysis based on computational perspectives. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111817.	4.1	22
7	Synthesis, structural characterization, Hirshfeld surface and DFT based reactivity, UV filter and NLO studies of Schiff base analogue of 4-aminoantipyrine. <i>Results in Chemistry</i> , 2020, 2, 100062.	2.0	17
8	A cheminformatic study on chemical space characterization and diversity analysis of 5-LOX inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 100, 107699.	2.4	1
9	Exploration of the thermal decomposition of zinc oxalate by experimental and computational methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1315-1327.	3.6	5
10	Towards a systematic analysis of structure-activity relationships of 5-LOX inhibitors through activity landscape and chemotype enrichment. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 207, 104188.	3.5	0
11	A computational exploration into the structure, antioxidant capacity, toxicity and drug-like activity of the anthocyanidin α -Petunidin. <i>Heliyon</i> , 2019, 5, e02115.	3.2	17
12	Betti base and its modified phthalonitrile derivative for the turn on fluorimetric detection of Hg ²⁺ and Cr ³⁺ ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111904.	3.9	8
13	DFT studies on global parameters, antioxidant mechanism and molecular docking of amlodipine besylate. <i>Computational Biology and Chemistry</i> , 2019, 80, 46-53.	2.3	29
14	QSAR modeling of benzoquinone derivatives as 5-lipoxygenase inhibitors. <i>Food Science and Human Wellness</i> , 2019, 8, 53-62.	4.9	7
15	DFT and QTAIM based investigation on the structure and antioxidant behavior of lichen substances Atranorin, Evernic acid and Diffractaic acid. <i>Computational Biology and Chemistry</i> , 2019, 80, 66-78.	2.3	31
16	Suzuki coupling derived indolocarbazole based macromolecule as a solid phase/solution phase sensor for Hg ²⁺ : Experimental and theoretical explorations. <i>European Polymer Journal</i> , 2019, 114, 287-297.	5.4	4
17	Effect of nano-transition metal oxides of Fe, Co and Ni and ferrites of Co and Ni on the multistage thermal decomposition of oxalates of Ce(III). <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 549-563.	3.6	5
18	Novel 4,4'-Fluoresceinoxy Bisphthalonitrile Showing Aggregation-Induced Enhanced Emission and Fluorescence Turn off Behavior to Fe ³⁺ Ions. <i>Journal of Fluorescence</i> , 2019, 29, 279-291.	2.5	7

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19	Kinetic study of the multistep thermal behaviour of barium titanyl oxalate prepared via chemical precipitation method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1295-1306.	3.6	6
20	The natural food colorant Peonidin from cranberries as a potential radical scavenger – A DFT based mechanistic analysis. <i>Food Chemistry</i> , 2018, 262, 184-190.	8.2	37
21	Theoretical studies on anti-oxidant potential of alpinetin. <i>Materials Today: Proceedings</i> , 2018, 5, 8908-8915.	1.8	8
22	Chitosan/nano ZnO composite films: Enhanced mechanical, antimicrobial and dielectric properties. <i>Arabian Journal of Chemistry</i> , 2018, 11, 120-127.	4.9	149
23	Experimental and density functional theory studies on benzalkonium ibuprofenate, a double active pharmaceutical ingredient. <i>Computational Biology and Chemistry</i> , 2018, 72, 113-121.	2.3	21
24	Structural Evaluation and Toxicological Study of a Bitter Masking Bioactive Flavanone, –Eriodictyol™. , 2018, , 45-60.		3
25	QSAR classification-based virtual screening followed by molecular docking studies for identification of potential inhibitors of 5-lipoxygenase. <i>Computational Biology and Chemistry</i> , 2018, 77, 154-166.	2.3	9
26	Data on the UV filtering and radical scavenging capacity of the bitter masking flavanone Eriodictyol. <i>Data in Brief</i> , 2018, 20, 981-985.	1.0	2
27	Studies on the UV filtering and radical scavenging capacity of the bitter masking flavanone Eriodictyol. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 185, 254-261.	3.8	16
28	A non toxic natural food colorant and antioxidant –Peonidin™ as a pH indicator: A TDDFT analysis. <i>Computational Biology and Chemistry</i> , 2018, 76, 202-209.	2.3	8
29	Synthesis, evaluation of kinetic characteristics and investigation of apoptosis of Cu ²⁺ -modified ceria nano discs. <i>Journal of Rare Earths</i> , 2018, 36, 1050-1059.	4.8	2
30	Synthesis, characterization and thermal dehydration and degradation kinetics of chitosan Schiff bases of o-, m- and p-nitrobenzaldehyde. <i>Polymer Bulletin</i> , 2017, 74, 39-54.	3.3	7
31	Flexible chitosan-nano ZnO antimicrobial pouches as a new material for extending the shelf life of raw meat. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 382-391.	7.5	98
32	The pKa values of amine based solvents for CO ₂ capture and its temperature dependence – An analysis by density functional theory. <i>International Journal of Greenhouse Gas Control</i> , 2017, 58, 62-70.	4.6	26
33	A DFT based analysis of adsorption of Hg ²⁺ ion on chitosan monomer and its citralidene and salicylidene derivatives: Prior to the removal of Hg toxicity. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 549-554.	7.5	31
34	Chitosan – green tea extract powder composite pouches for extending the shelf life of raw meat. <i>Polymer Bulletin</i> , 2017, 74, 3399-3419.	3.3	13
35	Photocatalytic activity of ZnO and Sr ²⁺ doped ZnO nanoparticles. <i>Journal of Water Process Engineering</i> , 2017, 17, 264-270.	5.6	50
36	Theoretical insights on flavanones as antioxidants and UV filters: A TDDFT and NLMO study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 286-294.	3.8	23

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37	A ligand-based comparative molecular field analysis (CoMFA) and homology model based molecular docking studies on 3- α , 4- α -dihydroxyflavones as rat 5-lipoxygenase inhibitors: Design of new inhibitors. Computational Biology and Chemistry, 2017, 71, 188-200.	2.3	4
38	Kinetic modelling of formation of K ⁺ doped BaTiO ₃ bones from barium titanate oxalate via multi stage thermal decomposition. Materials Research Bulletin, 2017, 94, 231-240.	5.2	4
39	Identification of flavanones from Boesenbergia rotunda as potential antioxidants and monoamine oxidase B inhibitors. Chemical Papers, 2017, 71, 2473-2483.	2.2	5
40	Effect of Ca(II) additive on the thermal dehydration kinetics of cerium oxalate rods. Journal of Thermal Analysis and Calorimetry, 2017, 128, 541-552.	3.6	3
41	A computational investigation on the structure, global parameters and antioxidant capacity of a polyphenol, Gallic acid. Food Chemistry, 2017, 220, 93-99.	8.2	141
42	Solvent Transport Characteristics of Thermoplastic Elastomer Blends Based on Nylon and NBR. Polymer Engineering and Science, 2017, 57, 231-236.	3.1	14
43	Exploration of the thermal decomposition of oxalates of copper and silver by experimental and computational methods. Journal of Analytical and Applied Pyrolysis, 2016, 120, 207-214.	5.5	13
44	Performance of knowledge-based biological models in higher dimensional chemical space. Chemometrics and Intelligent Laboratory Systems, 2016, 153, 58-66.	3.5	1
45	Thermal degradation and optical properties of SiC-infused polystyrene nanocomposites. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1809-1819.	3.6	8
46	Effect of Ca(II) on the multistep kinetic behavior of thermally induced oxidative decomposition of cerium(III) oxalate to CeO ₂ (IV). Journal of Analytical and Applied Pyrolysis, 2016, 120, 379-388.	5.5	9
47	One-pot synthesis of poly vinyl alcohol (PVA) supported silver nanoparticles and its efficiency in catalytic reduction of methylene blue. Transactions of Nonferrous Metals Society of China, 2016, 26, 2693-2700.	4.2	42
48	Synthesis, Z-Scan and Degenerate Four Wave Mixing characterization of certain novel thiocoumarin derivatives for third order nonlinear optical applications. Optical Materials, 2016, 58, 171-182.	3.6	9
49	A comparative study on the druggability of Schiff bases and dithiocarbamate derivatives of chitosan. Polymer Bulletin, 2016, 73, 2165-2177.	3.3	3
50	Effect of addition of silver on the thermal decomposition kinetics of copper oxalate. Journal of Thermal Analysis and Calorimetry, 2016, 123, 643-651.	3.6	11
51	Green synthesis of pure and doped semiconductor nanoparticles of ZnS and CdS. Transactions of Nonferrous Metals Society of China, 2015, 25, 3265-3270.	4.2	17
52	Virtual screening of molecular properties of chitosan and derivatives in search for druggable molecules. International Journal of Biological Macromolecules, 2015, 74, 392-396.	7.5	9
53	Density functional theory studies of Pb (II) interaction with chitosan and its derivatives. International Journal of Biological Macromolecules, 2015, 74, 483-488.	7.5	12
54	Thermal dehydration and degradation kinetics of heptylidene chitosan. Polymer Bulletin, 2015, 72, 809-819.	3.3	2

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55	Applications of chitosan powder with in situ synthesized nano ZnO particles as an antimicrobial agent. International Journal of Biological Macromolecules, 2015, 77, 266-272.	7.5	89
56	Kinetic Studies on the Thermal Dehydration and Degradation of Chitosan and Citralidene Chitosan. Journal of Polymers and the Environment, 2015, 23, 1-10.	5.0	21
57	Synthesis, characterization and vanadium (V) sorption studies on some chitosan derivatives. Journal of Water Process Engineering, 2014, 4, 143-148.	5.6	15
58	DSC kinetics of the thermal decomposition of copper(II) oxalate by isoconversional and maximum rate (peak) methods. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1969-1978.	3.6	16
59	Isothermal decomposition of K ₂ C ₂ O ₄ . Journal of Thermal Analysis and Calorimetry, 2014, 116, 1055-1060.	3.6	3
60	Studies on the sorption capacity for Pb(II) and Hg(II) of citralidene chitosan. Polymer Bulletin, 2014, 71, 1919-1932.	3.3	14
61	Thermal dehydration kinetics of potassium bis(oxalato)cuprate(II) dihydrate. Journal of Analytical and Applied Pyrolysis, 2014, 107, 298-305.	5.5	12
62	Thermal decomposition kinetics of potassium iodate. Journal of Thermal Analysis and Calorimetry, 2013, 114, 491-496.	3.6	9
63	The effect of pre-heating on the kinetics of the thermal decomposition of pure and chloride and phosphate doped sodium oxalate. Thermochemica Acta, 2013, 552, 10-14.	2.7	1
64	Kinetic studies on the thermal decomposition of phosphate-doped sodium oxalate. Journal of Thermal Analysis and Calorimetry, 2013, 111, 137-144.	3.6	9
65	Kinetics of the thermal dehydration of potassium titanium oxalate, K ₂ TiO(C ₂ O ₄) ₂ ·2H ₂ O. Journal of Thermal Analysis and Calorimetry, 2012, 109, 89-96.	3.6	4
66	Thermal decomposition kinetics of potassium iodate. Journal of Thermal Analysis and Calorimetry, 2012, 109, 237-245.	3.6	7
67	The effect of particle size on the thermal decomposition kinetics of potassium bromate. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1171-1182.	3.6	11
68	Effect of pre-compression on the kinetics of thermal decomposition of pure and doped sodium oxalate under isothermal conditions. Reaction Kinetics, Mechanisms and Catalysis, 2012, 106, 355-367.	1.7	4
69	Effect of semiconducting metal oxide additives on the kinetics of thermal decomposition of sodium oxalate under isothermal conditions. Thermochemica Acta, 2012, 534, 71-76.	2.7	3
70	Kinetic studies on the thermal decomposition of aluminium doped sodium oxalate under isothermal conditions. Thermochemica Acta, 2012, 534, 64-70.	2.7	3
71	Effect of chloride dopant on the kinetics of the thermal decomposition of sodium oxalate. Thermochemica Acta, 2012, 537, 25-30.	2.7	2
72	Influence of trivalent ion dopants on the thermal decomposition kinetics of potassium bromate. Thermochemica Acta, 2011, 525, 150-160.	2.7	6

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73	Effect of precompression on isothermal decomposition kinetics of pure and doped potassium bromate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 991-997.	3.6	6
74	Thermal decomposition kinetics of potassium iodate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 103, 943-955.	3.6	23
75	Effect of Particle Size on Non-Isothermal Decomposition of Potassium Titanium Oxalate. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 169-181.	2.8	2
76	Effects of dopants on the isothermal decomposition kinetics of potassium metaperiodate. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 1129-1138.	0.8	1
77	Thermal decomposition of potassium titanium oxalate. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 1015-1026.	0.8	3
78	Effect of metal oxide additives on the thermal decomposition kinetics of potassium metaperiodate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 177-181.	3.6	21
79	Thermal decomposition of potassium metaperiodate doped with trivalent ions. <i>Thermochimica Acta</i> , 2010, 502, 24-29.	2.7	11
80	Effect of pre-treatments on isothermal decomposition kinetics of potassium metaperiodate. <i>Thermochimica Acta</i> , 2010, 510, 160-167.	2.7	13
81	Effects of dopants on the isothermal decomposition kinetics of potassium metaperiodate. <i>Thermochimica Acta</i> , 2000, 359, 161-168.	2.7	15
82	Numerical data for the evaluation of kinetic parameters of solid state decompositions by the non-isothermal method. <i>Thermochimica Acta</i> , 1991, 186, 265-272.	2.7	6
83	Thermal decomposition kinetics of zirconyl oxalate, zirconyl oxalic acid and ammonium zirconyl oxalate. <i>Thermochimica Acta</i> , 1991, 191, 105-113.	2.7	10
84	Thermal decomposition kinetics of thiophene-2-carboxaldehyde thiosemicarbazone complexes of nickel(II) and palladium(II). <i>Journal of Thermal Analysis</i> , 1991, 37, 791-801.	0.6	9
85	Kinetic parameters for non-isothermal decomposition of cobalt(II), nickel(II) and palladium(II) complexes with 2-furaldehyde thiosemicarbazone. <i>Reactivity of Solids</i> , 1990, 8, 91-102.	0.3	11
86	Kinetics of thermal decomposition of sulphate-doped potassium metaperiodate. <i>Thermochimica Acta</i> , 1990, 158, 259-266.	2.7	17
87	Kinetics of non-isothermal decomposition of polymeric complexes of N,N'-bis(dithiocarboxy)piperazine with iron(III) and cobalt(III). <i>Thermochimica Acta</i> , 1990, 159, 101-107.	2.7	16
88	Thermal decomposition kinetics of bis(thiophene-2-carboxaldehyde thiosemicarbazonato) cobalt(II). <i>Reaction Kinetics and Catalysis Letters</i> , 1989, 39, 279-285.	0.6	2
89	Thermal decomposition kinetics of sodium metaperiodate. <i>Reaction Kinetics and Catalysis Letters</i> , 1989, 39, 339-344.	0.6	9
90	Thermal decomposition kinetics of barium zirconyl oxalate. <i>Thermochimica Acta</i> , 1989, 144, 109-116.	2.7	6

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91	Evaluation of kinetic parameters for the thermal decomposition of piperonaldehyde tfflosemicarbazone complexes of cobalt(II) and zinc(II) halides. <i>Thermochimica Acta</i> , 1989, 146, 149-159.	2.7	7
92	A comparative study of the thermal decomposition kinetics of zirconyl oxalates of calcium and strontium. <i>Thermochimica Acta</i> , 1989, 146, 225-232.	2.7	6
93	Thermal decomposition kinetics of 2-furaldehyde thiosemicarbazone complexes of cadmium(II) and mercury(II). <i>Thermochimica Acta</i> , 1989, 155, 247-253.	2.7	24
94	Thermal decomposition kinetics of polymeric complexes of nickel(II), zinc(II) and cadmium(II) with N,N'-bis(dithiocarboxy)piperazine. <i>Thermochimica Acta</i> , 1989, 140, 325-335.	2.7	13
95	Biological Evaluation and Molecular Docking Studies of Benzalkonium Ibuprofenate. , 0, , .		0