Mars Muftakhov

List of Publications by Year
in descending order

60 papers	587 citations	687363 13 h-index	752698 20 g-index
60 all docs	60 docs citations	60 times ranked	248 citing authors

#	Article	IF	Citations
1	Phenol, chlorobenzene and chlorophenol isomers: resonant states and dissociative electron attachment. Rapid Communications in Mass Spectrometry, 2003, 17, 2327-2336.	1.5	52
2	Determination of electron affinity of carbonyl radicals by means of negative ion mass spectrometry. , 1999, 13, 1104-1108.		43
3	Negative ion mass spectrum of the resonance electron capture by molecules of p-benzoquinone. International Journal of Mass Spectrometry, 2008, 273, 69-77.	1.5	30
4	Resonant dissociative attachment of electrons to molecules of five-membered heterocyclic compounds and lactams. Journal of Electron Spectroscopy and Related Phenomena, 1994, 69, 165-175.	1.7	27
5	Lifetime of negative molecular ions of tetracene and pentacene with respect to the autodetachment of an electron. JETP Letters, 2011, 93, 437-441.	1.4	22
6	Dissociative electron attachment to 2,4,6-trichloroanisole and 2,4,6-tribromoanisole molecules. Journal of Chemical Physics, 2017, 147, 234302.	3.0	22
7	Dissociative electron attachment to glycyl-glycine, glycyl-alanine and alanyl-alanine. Physical Chemistry Chemical Physics, 2011, 13, 4600.	2.8	21
8	Specific formation of (M-H)âˆ’ ions from OH-group-containing molecules. International Journal of Mass Spectrometry, 2001, 205, 119-135.	1.5	18
9	Slow decay of negative molecular fluorofullerene ions in the electron autodetachment process. JETP Letters, 2009, 90, 515-518.	1.4	18
10	Thermochemistry of negatively charged ions. II. Energetics of formation of negative ions from acridanone and some of its derivatives. Rapid Communications in Mass Spectrometry, 1999, 13, 912-923.	1.5	17
11	Rearrangement processes of negative ions in the gas phase: [M ï£¿ Hal]âˆ’ ions in halogenated azobenzenes. Resonance stabilization of negative ions. Journal of Mass Spectrometry, 1995, 30, 275-281.	1.6	16
12	Negative ions, molecular electron affinity and orbital structure of <i>cata</i>â€condensed polycyclic aromatic hydrocarbons. Rapid Communications in Mass Spectrometry, 2017, 31, 1729-1741.	1.5	16
13	Mechanism of negative ion formation from phenol and para-chlorophenol by interaction with free electrons. Rapid Communications in Mass Spectrometry, 2000, 14, 1468-1473.	1.5	15
14	High resolution mass analysis of N- and C-terminal negative ions resulting from resonance electron capture by aliphatic amino acids. Journal of Chemical Physics, 2010, 132, 234306.	3.0	14
15	Thermochemical determination of the structure of negative ions on the basis of data from resonance electron capture mass spectrometry. Phenol, its chlorinated derivatives and a thioanalogue. Rapid Communications in Mass Spectrometry, 2000, 14, 1482-1484.	1.5	13
16	Electron interaction with S6-C60(CF3)12: Energy pool of fullerene cage. International Journal of Mass Spectrometry, 2008, 272, 119-126.	1.5	12
17	Statistical description of metastable negative ionsâ€™ decay. International Journal of Mass Spectrometry, 2008, 273, 1-6.	1.5	12
18	Resonant dissociative electron capture by the simplest amino acids and dipeptides. Russian Chemical Bulletin, 2010, 59, 896-911.	1.5	11

#	Article	IF	Citations
19	Metastable dissociative decay of fluorofullerene negative ions. International Journal of Mass Spectrometry, 2011, 303, 55-62.	1.5	11
20	On the structure of negative ions formed by dissociative electron attachment by monochlorophenol molecules. Russian Chemical Bulletin, 2003, 52, 1974-1981.	1.5	10
21	Rearrangement and predissociation processes in negative molecular ions of nitrobenzenes. Journal of Mass Spectrometry, 2010, 45, 82-88.	1.6	10
22	Study of fragmentation pathways of metastable negative ions in aliphatic dipeptides using the statistical theory. Rapid Communications in Mass Spectrometry, 2012, 26, 828-834.	1.5	10
23	Decomposition of Aromatic Compounds Relevant to Organic Electronics under Exposure to Low-Energy Electrons. Technical Physics, 2018, 63, 1854-1860.	0.7	10
24	The energetics of resonant dissociative electron attachment to molecules of five-membered heterocyclic compounds. Russian Chemical Bulletin, 1994, 43, 988-992.	1.5	9
25	Resonant dissociative electron attachment by acetone, acetamide and acetic acid in the Rydberg states energy region. Rapid Communications in Mass Spectrometry, 1997, 11, 1923-1925.	1.5	8
26	Resonant electron capture by uridine and deoxyuridine molecules: Fragmentation with charge transfer. Rapid Communications in Mass Spectrometry, 2019, 33, 482-490.	1.5	8
27	Resonant electron capture by uridine. Journal of Analytical Chemistry, 2013, 68, 1200-1204.	0.9	7
28	Destruction of Peptides and Nucleosides in Reactions with Low-Energy Electrons. Technical Physics, 2018, 63, 747-758.	0.7	7
29	Fragmentation and slow autoneutralization of isolated negative molecular ions of phthalocyanine and tetraphenylporphyrin. Journal of Chemical Physics, 2019, 150, 134301.	3.0	7
30	Thermochemical determination of the structure of negative ions with the data from resonance electron capture spectrometry. 2. 5-Substituted 2-furancarboxylic acids and their esters. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1991, 40, 1812-1817.	0.0	6
31	Specific features of resonance electron capture mass spectra of ecdysteroid molecules. Russian Chemical Bulletin, 2002, 51, 306-310.	1.5	6
32	Specific features of the resonant electron attachment to the chlorodibenzo-p-dioxin molecules. Russian Chemical Bulletin, 2004, 53, 738-741.	1.5	6
33	Resonant dissociative electron capture by simple tripeptides. Russian Chemical Bulletin, 2014, 63, 642-650.	1.5	6
34	Resonant electron capture by aspartame and aspartic acid molecules. Rapid Communications in Mass Spectrometry, 2016, 30, 2577-2584.	1.5	6
35	Dissociative Electron Attachment to 2,3,6,7,10,11-Hexabromotriphenylene. Journal of Physical Chemistry A, 2020, 124, 690-694.	2.5	6
36	A unified statistical RRKM approach to the fragmentation and autoneutralization of metastable molecular negative ions of hexaazatrinaphthylenes. Physical Chemistry Chemical Physics, 2020, 22, 3073-3088.	2.8	6

#	Article	IF	Citations
37	Non-covalent anion structures in dissociative electron attachment to some brominated biphenyls. Journal of Chemical Physics, 2021, 155, 244302.	3.0	6
38	Processes of hydrogenation of trifluoromethylfullerenes in the mass spectrometer ion source. High Energy Chemistry, 2008, 42, 472-477.	0.9	5
39	The fragmentation of negative ions of fullerene C60 trifluoromethyl derivatives. Russian Journal of Physical Chemistry B, 2009, 3, 770-776.	1.3	5
40	Formation of doubly charged negative ions under the conditions of the resonant electron capture by fluorofullerenes. JETP Letters, 2013, 96, 664-667.	1.4	5
41	Hidden rearrangement processes in short-lived negative molecular ions. Russian Chemical Bulletin, 2006, 55, 380-383.	1.5	4
42	Fragmentation of valine and proline in resonant free electron capture reactions. Russian Chemical Bulletin, 2011, 60, 1965-1976.	1.5	4
43	On the energy dependence of the yield of doubly charged negative ions during the capture of free electrons by C60(CF3)12 trifluoromethylfullerene molecules. JETP Letters, 2013, 96, 659-663.	1.4	4
44	Formation of negative ions via resonant low-energy electron capture by cysteine and cystine methyl esters. Russian Chemical Bulletin, 2016, 65, 658-665.	1.5	4
45	Resonant electron capture by orotic acid molecules. Russian Journal of Physical Chemistry A, 2017, 91, 1730-1736.	0.6	4
46	Resonant electron capture by kinetin and 6-benzylaminopurine molecules. Chemical Physics Letters, 2020, 739, 136967.	2.6	4
47	Thermochemical determination of structure of negative ions on the basis of data from resonance electron capture mass spectrometry. 1. Heterocyclic analogs of cyclopentadiene. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1991, 40, 511-513.	0.0	3
48	An alternative interpretation of CS2â^'â€¢ resonant states. Journal of Electron Spectroscopy and Related Phenomena, 1994, 70, 95-101.	1.7	3
49	Isotope effect in cross-section of (Mâ^'H/D)â^' negative ions formation from CF3COOH and CF3COOD. International Journal of Mass Spectrometry, 2015, 380, 1-6.	1.5	3
50	Resonance Electron Attachment to Glucose and Fructose Molecules. Journal of Analytical Chemistry, 2018, 73, 1376-1381.	0.9	3
51	Resonance Electron Capture by Cysteine and N-Acetylcysteine Molecules. Russian Journal of Physical Chemistry A, 2020, 94, 102-109.	0.6	3
52	Resonant electron capture by 5-Br-2â€²-deoxyuridine. Journal of Chemical Physics, 2022, 156, 104304.	3.0	3
53	Specific features of resonance electron capture by the molecules of dibenzo-p-dioxin and its monochlorinated derivatives. Russian Chemical Bulletin, 2000, 49, 1489-1489.	1.5	2
54	Rearrangement processes in gas-phase negative ions. 1. Difluorocinnamic acid and some other organofluorine compounds. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 1400-1401.	0.0	1

#	Article	IF	Citations
55	Low-energy resonance states upon electron capture by five-membered heterocycles and cyclopentadiene. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 831-833.	0.0	1
56	Processes of dissociative electron capture by 20-hydroxyecdysone molecules. Russian Chemical Bulletin, 2000, 49, 713-716.	1.5	1
57	Mechanism of negative ion formation from phenol and para-chlorophenol by interaction with free electrons. , 2000, 14, 1468.		1
58	Negative ion mass spectrometry and stereochemistry of organic compounds. 7. Phenoxybenzyl esters of 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane-carboxylic acid. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1989, 38, 244-246.	0.0	0
59	Resonant electron capture by Captopril molecules. Russian Chemical Bulletin, 2019, 68, 1675-1683.	1.5	0
60	Resonance Capture of Electrons by Molecules near the Threshold of Ionization. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 885-888.	0.6	0