

Piotr Paneth

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175
papers

2,934
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44
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178
ext. papers

3,159
ext. citations

5.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
175	Physical and chemical basis of carbon isotope fractionation in plants. <i>Plant, Cell and Environment</i> , 1992 , 15, 1099-1104	8.4	175
174	ISOEFF98. A program for studies of isotope effects using Hessian modifications. <i>Journal of Mathematical Chemistry</i> , 1999 , 26, 75-86	2.1	141
173	A Study on the Activation of Carboxylic Acids by Means of 2-Chloro-4,6-dimethoxy-1,3,5-triazine and 2-Chloro-4,6-diphenoxy-1,3,5-triazine. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4248-4255	4.2	100
172	Coupling of hydrogenic tunneling to active-site motion in the hydrogen radical transfer catalyzed by a coenzyme B12-dependent mutase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10774-9	11.5	74
171	Computational insights into the mechanism of radical generation in B12-dependent methylmalonyl-CoA mutase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1287-92	16.4	68
170	Solvent-dependent transition states for decarboxylations. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7683-6	16.4	65
169	Carbon isotope effect on dehydration of bicarbonate ion catalyzed by carbonic anhydrase. <i>Biochemistry</i> , 1985 , 24, 5143-7	3.2	65
168	Benchmark Results for Hydrogen Atom Transfer between Carbon Centers and Validation of Electronic Structure Methods for Bond Energies and Barrier Heights. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2475-2486	2.8	63
167	Investigation of the enzymatic mechanism of yeast orotidine-5'-monophosphate decarboxylase using ¹³ C kinetic isotope effects. <i>Biochemistry</i> , 1991 , 30, 6216-23	3.2	62
166	Altered transition state for the reaction of an RNA model catalyzed by a dinuclear zinc(II) catalyst. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17858-66	16.4	59
165	Binding isotope effects. <i>Chemical Reviews</i> , 2013 , 113, 7851-79	68.1	58
164	Synthesis, cytotoxic effect, and structure-activity relationship of Pd(II) complexes with coumarin derivatives. <i>Inorganic Chemistry</i> , 2006 , 45, 9688-95	5.1	53
163	H-Bonding in Alcohols Is Reflected in the C-H Bond Strength: Variation of C-D Vibrational Frequency and Fractionation Factor. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11660-11669	16.4	48
162	Chlorine kinetic isotope effects on the haloalkane dehalogenase reaction. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4550-5	16.4	46
161	DFT and ONIOM(DFT:MM) studies on Co-C bond cleavage and hydrogen transfer in B12-dependent methylmalonyl-CoA mutase. Stepwise or concerted mechanism?. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5115-25	16.4	44
160	Experimental and theoretical multiple kinetic isotope effects for an S _N 2 reaction. An attempt to determine transition-state structure and the ability of theoretical methods to predict experimental kinetic isotope effects. <i>Chemistry - A European Journal</i> , 2003 , 9, 2696-709	4.8	44
159	How Well Does Microsolvation Represent Macrosolvation? A Test Case: Dynamics of Decarboxylation of 4-Pyridylacetic Acid Zwitterion. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2708-2713 ^{3,4}		42

158	Isotope Effects 2009 ,		34
157	Chlorine kinetic isotope effects on enzymatic dehalogenations. <i>Accounts of Chemical Research</i> , 2003 , 36, 120-6	24.3	34
156	Equilibrium isotope effect on ternary complex formation of [1-18O]oxamate with NADH and lactate dehydrogenase. <i>Biochemistry</i> , 1995 , 34, 6050-8	3.2	33
155	Carbon kinetic isotope effects on the spontaneous and antibody-catalyzed decarboxylation of 5-nitro-3-carboxybenzisoxazole. <i>Journal of the American Chemical Society</i> , 1993 , 115, 1410-1413	16.4	33
154	A new method of determining chlorine kinetic isotope effects. <i>Analytical Chemistry</i> , 1998 , 70, 3548-52	7.8	32
153	Kinetic isotope effects on dehalogenations at an aromatic carbon. <i>Environmental Science & Technology</i> , 2008 , 42, 7744-50	10.3	32
152	Isotopic analysis of oxidative pollutant degradation pathways exhibiting large H isotope fractionation. <i>Environmental Science & Technology</i> , 2013 , 47, 13459-68	10.3	31
151	Binding isotope effects as a tool for distinguishing hydrophobic and hydrophilic binding sites of HIV-1 RT. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 917-27	3.4	30
150	Modeling of isotope effects on binding oxamate to lactic dehydrogenase. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12782-9	3.4	30
149	Nitrogen and deuterium isotope effects on quaternization of N,N-dimethyl-p-toluidine. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1691-1693	16.4	30
148	Dependence of transition state structure on substrate: the intrinsic C-13 kinetic isotope effect is different for physiological and slow substrates of the ornithine decarboxylase reaction because of different hydrogen bonding structures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5414-22	16.4	29
147	The effect of solvent on the structure of the transition state for the S(N)2 reaction between cyanide ion and ethyl chloride in DMSO and THF probed with six different kinetic isotope effects. <i>Journal of Organic Chemistry</i> , 2006 , 71, 4742-7	4.2	29
146	Biological and docking studies of topoisomerase IV inhibition by thiosemicarbazides. <i>Journal of Molecular Modeling</i> , 2011 , 17, 2297-303	2	27
145	Mechanism of Cobalamin-Mediated Reductive Dehalogenation of Chloroethylenes. <i>ACS Catalysis</i> , 2017 , 7, 5294-5307	13.1	26
144	Thiol/thione tautomeric forms recognition on the example of 4-[3-(2-methyl-furan-3-yl)-5-thioxo-1,2,4-triazolin-4-yl]acetic acid. <i>Heteroatom Chemistry</i> , 2008 , 19, 337-344	1.2	26
143	A theoretical investigation of alpha-carbon kinetic isotope effects and their relationship to the transition-state structure of S(N)2 reactions. <i>Journal of Organic Chemistry</i> , 2005 , 70, 4022-7	4.2	26
142	A new interpretation of chlorine leaving group kinetic isotope effects; a theoretical approach. <i>Journal of Organic Chemistry</i> , 2004 , 69, 4900-5	4.2	26
141	A DFT study of the cis-dihydroxylation of nitroaromatic compounds catalyzed by nitrobenzene dioxygenase. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3245-56	3.4	25

140	DFT study of trichloroethene reaction with permanganate in aqueous solution. <i>Environmental Science & Technology</i> , 2011 , 45, 3006-11	10.3	25
139	Theoretical evaluation of the hydrogen kinetic isotope effect on the first step of the methylmalonyl-CoA mutase reaction. <i>Journal of Inorganic Biochemistry</i> , 2001 , 86, 681-9	4.2	25
138	Analyzing sites of OH radical attack (ring vs. side chain) in oxidation of substituted benzenes via dual stable isotope analysis (^{13}C and ^2H). <i>Science of the Total Environment</i> , 2016 , 542, 484-94	10.2	25
137	Modeling excitation properties of iridium complexes. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 845-856	2.1	24
136	Assessing molecular docking tools for relative biological activity prediction: a case study of triazole HIV-1 NNRTIs. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 3326-42	6.1	23
135	Extending limits of chlorine kinetic isotope effects. <i>Journal of Organic Chemistry</i> , 2012 , 77, 5120-4	4.2	23
134	Substrate and Enzyme Specificity of the Kinetic Isotope Effects Associated with the Dioxygenation of Nitroaromatic Contaminants. <i>Environmental Science & Technology</i> , 2016 , 50, 6708-16	10.3	23
133	1,4-Disubstituted thiosemicarbazide derivatives are potent inhibitors of <i>Toxoplasma gondii</i> proliferation. <i>Molecules</i> , 2014 , 19, 9926-43	4.8	22
132	Structural Aspects and Rearrangement of Radical Cations Generated from NADH Analogues. <i>Journal of the American Chemical Society</i> , 1996 , 118, 691-692	16.4	22
131	The assignment of the absolute configuration of diethyl hydroxy- and aminophosphonates by ^1H and ^{31}P NMR using naproxen as a reliable chiral derivatizing agent. <i>Journal of Organic Chemistry</i> , 2007 , 72, 878-87	4.2	21
130	Kinetic isotope effects on substrate association: reactions of phosphoenolpyruvate with phosphoenolpyruvate carboxylase and pyruvate kinase. <i>Biochemistry</i> , 1995 , 34, 2577-83	3.2	21
129	Molecular Dynamics Simulation of Nitrobenzene Dioxygenase Using AMBER Force Field. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2246-2254	6.4	20
128	Theoretical calculations of heavy-atom isotope effects. <i>Computers & Chemistry</i> , 1995 , 19, 231-40		20
127	Structure-cytotoxic activity relationship of 3-arylidene flavanone and chromanone (E,Z isomers) and 3-arylflavones. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 4102-6	2.9	19
126	Synthesis, crystal structure, theoretical calculation and cytotoxic effect of new Pt(II), Pd(II) and Cu(II) complexes with pyridine-pyrazoles derivatives. <i>New Journal of Chemistry</i> , 2008 , 32, 2238	3.6	19
125	Nitrogen and deuterium kinetic isotope effects on the Menshutkin reaction. <i>Journal of Physical Organic Chemistry</i> , 1996 , 9, 35-40	2.1	18
124	Measurements of heavy-atom isotope effects using ^1H NMR spectroscopy. <i>Journal of Organic Chemistry</i> , 2011 , 76, 8033-5	4.2	17
123	A DFT Study of the Kinetic Isotope Effects on the Competing $\text{S}_{\text{N}}2$ and E_2 Reactions between Hypochlorite Anion and Ethyl Chloride. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 33-6	6.4	17

122	Borderline between E1cB and E2 mechanisms. Chlorine isotope effects in base-promoted elimination Reactions. <i>Journal of Organic Chemistry</i> , 2002 , 67, 177-81	4.2	17
121	Triazole-based compound as a candidate to develop novel medicines to treat toxoplasmosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 7583-5	5.9	16
120	Mechanism of the reaction catalyzed by DL-2-haloacid dehalogenase as determined from kinetic isotope effects. <i>Biochemistry</i> , 2006 , 45, 6012-7	3.2	16
119	Tritium secondary kinetic isotope effect on phenylalanine ammonia-lyase-catalyzed reaction. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 370, 216-21	4.1	16
118	Phosphorus-sulfur bond order in phosphothioate anions. <i>Journal of the American Chemical Society</i> , 1986 , 108, 1720-1722	16.4	16
117	Differences and similarities in binding of pyruvate and L-lactate in the active site of M4 and H4 isoforms of human lactate dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 505, 33-41	4.1	15
116	Importance of the lactate dehydrogenase quaternary structure in theoretical calculations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 3393-7	3.4	15
115	Quantum catalysis in B12-dependent methylmalonyl-CoA mutase: experimental and computational insights. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1333-9	5.8	15
114	On the application of the steady state to kinetic isotope effects. <i>Journal of the American Chemical Society</i> , 1985 , 107, 7070-7071	16.4	15
113	Biological evaluation and molecular modelling study of thiosemicarbazide derivatives as bacterial type IIA topoisomerases inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 14-22	5.6	14
112	Elucidation of the mechanism of N-demethylation catalyzed by cytochrome P450 monooxygenase is facilitated by exploiting nitrogen-15 heavy isotope effects. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 510, 35-41	4.1	13
111	Theoretical evaluation of isotopic fractionation factors in oxidation reactions of benzene, phenol and chlorophenols. <i>Journal of Molecular Modeling</i> , 2011 , 17, 2285-96	2	13
110	Mechanism of 4-methyl-1,2,4-triazol-3-thiole reaction with formaldehyde. A DFT study. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 1043-1049	2.1	13
109	Progress in understanding the N-demethylation of alkaloids by exploiting isotopic techniques. <i>Phytochemistry Reviews</i> , 2007 , 6, 51-63	7.7	13
108	Non-statistical ¹³ C Fractionation Distinguishes Co-incident and Divergent Steps in the Biosynthesis of the Alkaloids Nicotine and Tropine. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16620-9	5.4	12
107	Binding modes of DL-2-haloacid dehalogenase revealed by crystallography, modeling and isotope effects studies. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 540, 26-32	4.1	12
106	Cytochrome P450-catalyzed degradation of nicotine: fundamental parameters determining hydroxylation by cytochrome P450 2A6 at the 5'-carbon or the n-methyl carbon. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7827-40	3.4	12
105	Investigation of the mechanism of nicotine demethylation in <i>Nicotiana</i> through ² H and ¹⁵ N heavy isotope effects: implication of cytochrome P450 oxidase and hydroxyl ion transfer. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 458, 175-83	4.1	12

104	Kinetic isotope effects on the Menshutkin reaction: Theory versus experiment. <i>Journal of Physical Organic Chemistry</i> , 1996 , 9, 41-49	2.1	12
103	Isotope effects on binding. <i>Journal of Molecular Structure</i> , 1996 , 378, 35-43	3.4	12
102	DFT Studies of SN2 Dechlorination of Polychlorinated Biphenyls. <i>Environmental Science & Technology</i> , 2016 , 50, 6293-8	10.3	11
101	A DFT and ONIOM study of C-H hydroxylation catalyzed by nitrobenzene 1,2-dioxygenase. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13889-99	3.6	11
100	Binding ligands and cofactor to L-lactate dehydrogenase from human skeletal and heart muscles. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6366-76	3.4	11
99	Tautomeric forms study of 1H-(2'-pyridyl)-3-methyl-5-hydroxypyrazole and 1H-(2'-pyridyl)-3-phenyl-5-hydroxypyrazole. Synthesis, structure, and cytotoxic activity of their complexes with palladium(II) ions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 1257-68	5.6	11
98	Calculations of substituent and solvent effects on the kinetic isotope effects of Menshutkin reactions. <i>Journal of Organic Chemistry</i> , 2003 , 68, 8232-5	4.2	11
97	Chlorine Isotope Effects on Chemical Reactions. <i>Current Organic Chemistry</i> , 2005 , 9, 75-88	1.7	11
96	Some analytical aspects of the measurement of heavy-atom kinetic isotope effects. <i>Talanta</i> , 1987 , 34, 877-83	6.2	11
95	Cytotoxic effect and molecular docking of 4-ethoxycarbonylmethyl-1-(piperidin-4-ylcarbonyl)-thiosemicarbazide--a novel topoisomerase II inhibitor. <i>Journal of Molecular Modeling</i> , 2013 , 19, 1319-24	2	10
94	Pharmacological and structure-activity relationship evaluation of 4-aryl-1-diphenylacetyl(thio)semicarbazides. <i>Molecules</i> , 2014 , 19, 4745-59	4.8	10
93	Isotopic fractionation - chemical v. environmental perspective. <i>Environmental Chemistry</i> , 2012 , 9, 67	3.2	10
92	Validation of semiempirical methods for modeling of corrinoid systems. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1078-86	4.2	10
91	Determination of the chlorine kinetic isotope effect on the 4-chlorobenzoyl-CoA dehalogenase-catalyzed nucleophilic aromatic substitution. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 398, 249-52	4.1	10
90	Semiempirical calculations of the oxygen equilibrium isotope effect on binding of oxamate to lactate dehydrogenase. <i>European Biophysics Journal</i> , 1994 , 23, 353-60	1.9	10
89	Search for human DNA topoisomerase II poisons in the group of 2,5-disubstituted-1,3,4-thiadiazoles. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 1021-26	5.6	9
88	Evolved <i>Fusarium oxysporum</i> laccase expressed in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2020 , 10, 3244	4.9	9
87	Insights into the role of methionine synthase in the universal C depletion in O- and N-methyl groups of natural products. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 635, 60-65	4.1	9

86	Valence anions of N-acetylproline in the gas phase: computational and anion photoelectron spectroscopic studies. <i>Journal of Chemical Physics</i> , 2011 , 135, 114301	3.9	9
85	¹³ C and (¹⁵ N) Kinetic Isotope Effects on the Decarboxylation of 3-Carboxybenzisoxazole. Theory vs Experiment. <i>Journal of Organic Chemistry</i> , 1997 , 62, 7305-7309	4.2	9
84	Computational studies of the cyclization of thiosemicarbazides. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 463-468	2.1	9
83	Preparation of ¹⁸ O-labelled nicotinamide. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2002 , 45, 1005-1010	1.9	9
82	Heavy atom isotope effects on enzymatic reactions. <i>Journal of Molecular Structure</i> , 1994 , 321, 35-44	3.4	9
81	¹³ C NMR and ¹ H- ¹ H NOEs of Coenzyme-A: Conformation of the Pantoic Acid Moiety. <i>Bioorganic Chemistry</i> , 1995 , 23, 169-181	5.1	9
80	Synthesis and antibacterial activity of 1,4-dibenzoylthiosemicarbazide derivatives. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 88, 1235-1242	7.5	8
79	Comparison of quantitative NMR and IRMS for the authentication of 'Polish Vodka'. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 263-268	4.3	8
78	Mechanistic Analysis of the Base-Catalyzed HF Elimination from 4-Fluoro-4-(4'-nitrophenyl)butane-2-one Based on Liquid-Phase Kinetic Isotope Effects Calculated by Dynamics Modeling with Multidimensional Tunneling. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 59-67	6.4	8
77	Enzyme mechanisms from molecular modeling and isotope effects. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 474, 274-82	4.1	8
76	Synthesis and pharmacological properties of 3-(2-methyl-furan-3-yl)-4-substituted- α -1,2,4-triazoline-5-thiones. <i>Open Chemistry</i> , 2008 , 6, 47-53	1.6	8
75	Chlorine kinetic isotope effect on the fluoroacetate dehalogenase reaction. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9192-3	16.4	8
74	Sulfur-34, sulfur-36, and oxygen-18 isotope effects on phosphorus-31 chemical shifts in thiophosphate anhydrides. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1409-1411	16.4	8
73	Non-statistical isotope fractionation as a novel β etro-biosynthetic approach to understanding alkaloid metabolic pathways. <i>Phytochemistry Letters</i> , 2017 , 20, 499-506	1.9	7
72	Searching for novel scaffold of triazole non-nucleoside inhibitors of HIV-1 reverse transcriptase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 481-9	5.6	7
71	Antimicrobial Properties of 4-Aryl-3-(2-methyl-furan-3-yl)- α -1,2,4-triazoline-5-thiones. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009 , 184, 3149-3159	1	7
70	Correlating biological activity with calculated geometric motifs in cyclolinopeptide A analogs. <i>Journal of Physical Organic Chemistry</i> , 2004 , 17, 625-630	2.1	7
69	Isotope effect evidence for the zinc hydroxide mechanism of carbonic anhydrase catalysis. <i>Biochemistry</i> , 1987 , 26, 1728-31	3.2	7

68	Can Adsorption on Graphene be Used for Isotopic Enrichment? A DFT Perspective. <i>Molecules</i> , 2018 , 23,	4.8	7
67	The cytotoxic effect of spiroflavanone derivatives, their binding ability to human serum albumin (HSA) and a DFT study on the mechanism of their synthesis. <i>Journal of Molecular Structure</i> , 2017 , 1137, 267-276	3.4	6
66	What do docking and QSAR tell us about the design of HIV-1 reverse transcriptase nonnucleoside inhibitors?. <i>Journal of Molecular Modeling</i> , 2017 , 23, 317	2	6
65	Lipophilicity Studies on Thiosemicarbazide Derivatives. <i>Molecules</i> , 2017 , 22,	4.8	6
64	2-OMe-lysophosphatidylcholine analogues are GPR119 ligands and activate insulin secretion from β C-3 pancreatic cells: Evaluation of structure-dependent biological activity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 91-103	5	6
63	A DFT study of permanganate oxidation of toluene and its ortho-nitroderivatives. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2091	2	6
62	Cytochrome P450 Monooxygenase-Catalyzed Ring Opening of the Bicyclic Amine, Nortropine: An Experimental and DFT Computational Study. <i>ChemCatChem</i> , 2012 , 4, 530-539	5.2	6
61	Are mutated enzymes good models for interpretation of intrinsic isotope effects?. <i>Computational and Theoretical Chemistry</i> , 1998 , 454, 69-75		6
60	Chemical and Pharmacological Properties of 3-(Thiophen-2-yl)-4-substituted- Δ 2-1,2,4-triazoline-5-thiones. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008 , 183, 2669-2677		6
59	Influence of the solvent description on the predicted mechanism of SN2 reactions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12414-9	3.4	6
58	The first investigation of Wilms' tumour atomic structure-nitrogen and carbon isotopic composition as a novel biomarker for the most individual approach in cancer disease. <i>Oncotarget</i> , 2016 , 7, 76726-76734	3.3	6
57	Diaryl ethers with carboxymethoxyphenacyl motif as potent HIV-1 reverse transcriptase inhibitors with improved solubility. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 9-16	5.6	6
56	Analogues of NADP(+) as inhibitors and coenzymes for NADP(+) malic enzyme from maize leaves. <i>Photosynthesis Research</i> , 1991 , 28, 69-76	3.7	6
55	Design, synthesis and biological evaluation of 4-benzoyl-1-dichlorobenzoylthiosemicarbazides as potent Gram-positive antibacterial agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 434-40	5.6	5
54	Measurement and Prediction of Chlorine Kinetic Isotope Effects in Enzymatic Systems. <i>Methods in Enzymology</i> , 2017 , 596, 179-215	1.7	5
53	Rhabdomyosarcoma in children in the light of isotope ratio mass spectrometry. <i>Polish Journal of Pathology</i> , 2015 , 66, 383-8	0.9	5
52	Does dehydrocyclization of 4-benzoylthiosemicarbazides in acetic acid lead to s-triazoles or thiadiazoles?. <i>Structural Chemistry</i> , 2012 , 23, 1441-1448	1.8	5
51	Mechanism of 4-methyl-1,2,4-triazol-3-thione reaction with formaldehyde. <i>Journal of Physical Organic Chemistry</i> , 2008 , 21, 345-348	2.1	5

50	Theoretical calculations of heavy-atom isotope effects. <i>Computers & Chemistry</i> , 1995 , 19, 11-20		5
49	Deuterium kinetic isotope effect on quaternization of N,N-dimethylaniline. <i>Journal of Molecular Structure</i> , 1994 , 321, 97-99	3.4	5
48	Photochemical and radiolytic cleavage of 10-methylacridine dimer in solutions and cryogenic glasses. <i>Journal of Physical Organic Chemistry</i> , 1993 , 6, 254-256	2.1	5
47	Relative sulfur-36-sulfur-34 kinetic isotope effects. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1407-1408	16.4	5
46	Antibacterial Activity of Fluorobenzoylthiosemicarbazides and Their Cyclic Analogues with 1,2,4-Triazole Scaffold. <i>Molecules</i> , 2020 , 26,	4.8	5
45	RNA-Inspired and Accelerated Degradation of Polylactide in Seawater. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16673-16681	16.4	5
44	Docking and QSAR of Aminothioureas at the SARS-CoV-2 S-Protein-Human ACE2 Receptor Interface. <i>Molecules</i> , 2020 , 25,	4.8	4
43	Theoretical studies of energetics and binding isotope effects of binding a triazole-based inhibitor to HIV-1 reverse transcriptase. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 310-7	3.6	4
42	Resolving Discrepancy between Theory and Experiment in 4-Nitrotoluene Oxidation. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6638-6645	2.8	4
41	The first protocol of stable isotope ratio assessment in tumor tissues based on original research. <i>Polish Journal of Pathology</i> , 2015 , 66, 288-95	0.9	4
40	Micropreparative isolation of Cu(II) complexes of isoniazid and ethambutol and determination of their structures. <i>Journal of Planar Chromatography - Modern TLC</i> , 2009 , 22, 83-88	0.9	4
39	Significance of the cis/trans isomerization of early intermediates in the carotene biosynthetic pathway. <i>Journal of Physical Organic Chemistry</i> , 1992 , 5, 783-786	2.1	4
38	Quantum approach to the mechanism of monothiopyrophosphate isomerization. <i>Journal of Molecular Modeling</i> , 2019 , 25, 286	2	3
37	Assessment of Nonnucleoside Inhibitors Binding to HIV-1 Reverse Transcriptase Using HYDE Scoring. <i>Pharmaceuticals</i> , 2019 , 12,	5.2	3
36	Synthesis and theoretical characterization of some new 4-substituted-1,3-diphenyl-5-thioxo-4,5-dihydro-1H-1,2,4-triazoles with potential pharmacological activity. <i>Heteroatom Chemistry</i> , 2008 , 19, 713-718	1.2	3
35	Dependence of isotope effects on conformation in decarboxylation of 3-carboxybenzisoxazoles. <i>Computational and Theoretical Chemistry</i> , 1996 , 370, 237-243		3
34	Numerical evaluation of the time-dependence of concentrations, rates and kinetic isotope effects. <i>Computers & Chemistry</i> , 1991 , 15, 347-349		3
33	Semiempirical SCF-MO calculations of kinetic isotope effects. <i>Journal of Physical Organic Chemistry</i> , 1991 , 4, 635-638	2.1	3

32	Mechanisms of Isomerization of Sym-Monothioxyphosphates. <i>Phosphorous and Sulfur and the Related Elements</i> , 1987 , 30, 257-260		3
31	³⁶ S and ¹⁸ O isotope effects in infrared spectra of monothioxyphosphates. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1985 , 41, 513-514		3
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29	Characteristic of Oral Squamous Cell Carcinoma Tissues Using Isotope Ratio Mass Spectrometry. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
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