

# Maria Wierzejewska

## List of Publications by Year in descending order

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66  
papers

839  
citations

471509

17  
h-index

610901

24  
g-index

68  
all docs

68  
docs citations

68  
times ranked

760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photolysis of isothiocyanic acid HNCS in low-temperature matrices. Infrared detection of HSCN and HSNc isomers. <i>Chemical Physics Letters</i> , 2001, 349, 227-234.	2.6	60
2	Theoretical and matrix isolation FTIR studies of 3-amino-1,2,4-triazole and its isomers. <i>Chemical Physics Letters</i> , 2009, 473, 238-246.	2.6	41
3	Infrared matrix isolation and ab initio studies on isothiocyanic acid HNCS and its complexes with nitrogen and xenon. <i>Chemical Physics</i> , 2003, 287, 169-181.	1.9	37
4	Isomerization and Dissociation of CHNS: A Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 11209-11216.	2.5	37
5	First example of the ABC $\hat{1}/2$ (OH) absorption structure for both gaseous and crystalline phase: infrared studies of dimethylphosphinic acid. <i>Journal of Molecular Structure</i> , 1997, 404, 55-62.	3.6	32
6	Are hydrogen bonds to sulfur and oxygen different? Theoretical study of dimethylsulfide and dimethylether complexes with nitric acid. <i>Chemical Physics Letters</i> , 2004, 391, 143-147.	2.6	29
7	Well-controlled, zinc-catalyzed synthesis of low molecular weight oligolactides by ring opening reaction. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 155-163.	4.8	27
8	Theoretical and Experimental Studies of Enflurane. Infrared Spectra in Solution, in Low-Temperature Argon Matrix and Blue Shifts Resulting from Dimerization. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12228-12238.	2.6	25
9	Conformational Behavior and Tautomer Selective Photochemistry in Low Temperature Matrices: The Case of 5-(1 <i>H</i> -Tetrazol-1-yl)-1,2,4-triazole. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5693-5707.	2.5	24
10	UV-induced proton transfer in 3-amino-1,2,4-triazole. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 335, 124-129.	3.9	24
11	Infrared matrix isolation and theoretical studies of SO <sub>2</sub> •HNO <sub>3</sub> and SO <sub>2</sub> •HONO systems. <i>Chemical Physics</i> , 1998, 228, 17-29.	1.9	23
12	FTIR matrix isolation studies of complexes of dimethylsulfide, dimethyldisulfide and hydrogen sulfide with nitric acid. <i>Vibrational Spectroscopy</i> , 2000, 23, 253-262.	2.2	23
13	Infrared matrix isolation studies of complexes formed between dimethylsulfide, dimethyldisulfide and nitrous acid. <i>Journal of Molecular Structure</i> , 2000, 520, 199-214.	3.6	19
14	Light-Induced Opening and Closing of the Intramolecular Hydrogen Bond in Glyoxylic Acid. <i>Journal of Physical Chemistry A</i> , 2014, 118, 350-357.	2.5	19
15	Crystal structure and vibrational spectra of bis(betaine) sulfamate. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3503-3510.	2.8	18
16	Matrix isolation infrared studies of complexes formed between substituted phenols and trimethylamine. <i>Journal of Molecular Structure</i> , 1997, 416, 121-132.	3.6	17
17	Matrix infrared spectra of nitrous acid complexes with some oxygen bases. <i>Journal of Molecular Structure</i> , 1997, 436-437, 339-347.	3.6	17
18	Conformational Study of Eugenol by Density Functional Theory Method and Matrix-Isolation Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5691-5699.	2.5	17

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19	Conformational properties and photochemistry of new allyl tetrazoles: Matrix isolation FTIR and computational approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 251, 118-127.	3.9	17
20	Infrared spectra and X-ray structure of (tetrazol-5-yl)acetic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 108, 229-235.	3.9	14
21	The conformational analysis of push-pull enamines using FTIR and NMR spectroscopy, and quantum chemical calculations. VI. $\hat{I}^2\hat{a}^{\sim}\hat{N}\hat{a}^{\sim}$ Methyl-aminovinyl trifluoromethyl ketone and $\hat{I}\pm\hat{a}^{\sim}$ methyl $\hat{I}^2\hat{a}^{\sim}\hat{N}\hat{a}^{\sim}$ methylaminovinyl trifluoromethyl ketone. <i>Journal of Molecular Structure</i> , 2017, 1128, 741-753.	3.6	14
22	Conformational properties and photochemistry of tetrazolylpyridines in low temperature matrices. Spectroscopic evidence for the photochemical carbon-to-nitrogen rearrangement. <i>Tetrahedron</i> , 2011, 67, 8572-8582.	1.9	13
23	Carboxylic Group and Its Tetrazolyl Isostere in One Molecule. Matrix Isolation FTIR and DFT Studies on Thermal Decomposition and Photochemistry of (Tetrazol-5-yl)acetic Acid. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2072-2082.	2.5	13
24	Photolysis of Matrix Isolated HONO/SO <sub>2</sub> System. Identification and Infrared Spectra of Nitrososulfonic Acid HO(NO)SO <sub>2</sub> and Hydroxysulfonyl HOSO <sub>2</sub> Radical. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10944-10952.	2.5	12
25	Ultraviolet-Tunable Laser Induced Phototransformations of Matrix Isolated Isoeugenol and Eugenol. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11148-11158.	2.6	12
26	Photochemical transformations of 5-methyltetrazole. Matrix isolation FTIR and DFT studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 277, 37-44.	3.9	12
27	UV-tunable laser induced photolysis of matrix isolated anisole. <i>Chemical Physics Letters</i> , 2015, 618, 219-224.	2.6	12
28	New data on photochemistry of the interstellar molecule: HNCS. Identification of the $\hat{S}\hat{a}^{\sim}\hat{H}\hat{C}\hat{N}$ complex. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22431-22437.	2.8	12
29	Infrared matrix isolation studies of carbon disulfide and carbon dioxide complexes with nitrous and nitric acids. <i>Journal of Molecular Structure</i> , 1999, 513, 155-167.	3.6	11
30	Matrix Isolation Spectra and ab Initio Calculations of Isothiocyanic Acid Complexes with Carbon Monoxide. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1928-1934.	2.5	11
31	FTIR matrix isolation and theoretical studies of glycolic acid dimers. <i>Journal of Molecular Structure</i> , 2018, 1163, 294-299.	3.6	11
32	Theoretical study of hydrogen bonded complexes of dimethyl disulfide or dimethyl peroxide with nitric acid. <i>Journal of Molecular Structure</i> , 2006, 786, 33-38.	3.6	10
33	Phototransformations of 2-(1,2,4-Triazol-3-yl)benzoic Acid in Low Temperature Matrices. <i>Journal of Physical Chemistry A</i> , 2019, 123, 841-850.	2.5	10
34	High vibrational overtone excitation $\hat{a}^{\sim}$ induced conformational isomerization of glycolic acid in solid argon matrix. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 2036-2045.	2.5	9
35	Theoretical Studies of the Reaction Channels on the SO <sub>2</sub> /OH/NO Singlet Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2790-2796.	2.5	8
36	Special feature of kinetics of ZcE isomerization of $\hat{I}^2\hat{N}$ -methylaminovinyl trifluoromethyl ketone in Ar matrix exposed to UV radiation and spontaneous E $\hat{a}^{\sim}$ Z isomerization of $\hat{I}\pm$ -methyl- $\hat{I}^2\hat{N}$ -methylaminovinyl trifluoromethyl ketone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 130-140.	3.9	8

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37	Conformational behavior of the simplest dipeptide: Formylglycine. Quantum chemical and matrix isolation FTIR study. <i>Chemical Physics Letters</i> , 2009, 476, 287-292.	2.6	7
38	Theoretical studies of atmospheric molecular complexes interacting with NIR to UV light. <i>Faraday Discussions</i> , 2018, 212, 421-441.	3.2	7
39	Infrared spectra and photochemistry of 2-(tetrazol-5-yl)benzoic acid isolated in nitrogen matrices. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 292-299.	3.9	7
40	Combined matrix isolation IR spectroscopic and ab initio quantum chemical study of the molecular structure of aminomethylphosphinic acid. <i>Journal of Molecular Structure</i> , 1999, 484, 19-30.	3.6	6
41	Isomerization pathways of singlet Ga <sub>2</sub> H <sub>2</sub> : quantum-mechanical predictions. <i>Chemical Physics Letters</i> , 2003, 380, 304-312.	2.6	6
42	Vibrational, structural and theoretical studies of potassium dl-phenylglycinate. <i>Journal of Molecular Structure</i> , 2009, 919, 303-311.	3.6	6
43	Structural, spectroscopic and conformational properties of 2-methyl-2-(1H-tetrazol-1-yl)propan-1-ol experimental and theoretical approach. <i>Journal of Molecular Structure</i> , 2010, 976, 431-439.	3.6	6
44	UV-tunable laser induced phototransformations of matrix isolated anethole. <i>Journal of Chemical Physics</i> , 2014, 140, 105102.	3.0	6
45	On the unusual IR spectra of the acetic acid-trimethylamine complex in low temperature matrices. <i>Chemical Physics</i> , 2014, 436-437, 17-21.	1.9	6
46	Light-induced, site-selective isomerization of glyoxylic acid in solid xenon. <i>Chemical Physics Letters</i> , 2014, 616-617, 91-97.	2.6	6
47	Structure of isothiocyanic acid dimers. Theoretical and FTIR matrix isolation studies. <i>Chemical Physics Letters</i> , 2016, 652, 46-49.	2.6	6
48	New aspects of UV photolysis of hydrogen peroxide. Nitrogen matrix isolation FTIR and theoretical studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 330, 134-139.	3.9	6
49	Raman spectroscopy of glycolic acid complexes with N <sub>2</sub> . <i>Journal of Molecular Structure</i> , 2019, 1183, 367-372.	3.6	6
50	Complexes of Glycolic Acid with Nitrogen Isolated in Argon Matrices. I. Structures and Thermal Effects. <i>Molecules</i> , 2019, 24, 3262.	3.8	6
51	Theoretical DFT and matrix isolation FTIR studies of 2-(1,2,4-triazolyl)phenol isomers. <i>Chemical Physics Letters</i> , 2016, 657, 156-161.	2.6	5
52	The role of dispersion and anharmonic corrections in conformational analysis of flexible molecules: the allyl group rotamerization of matrix isolated safrole. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8352-8364.	2.8	5
53	FTIR matrix isolation studies of thermal decomposition of 1,2,4-triazolyl-3-carboxylic acid. <i>Journal of Molecular Structure</i> , 2020, 1209, 127938.	3.6	5
54	Polymorphism and Conformational Equilibrium of Nitro-Acetophenone in Solid State and under Matrix Conditions. <i>Molecules</i> , 2021, 26, 3109.	3.8	5

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55	FTIR spectroscopic evidence for new isomers of 3-aminopyrazine-2-carboxylic acid formed in argon matrices upon UV irradiations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120158.	3.9	5
56	Matrix Isolation FTIR and Theoretical Study of Weakly Bound Complexes of Isocyanic Acid with Nitrogen. <i>Molecules</i> , 2022, 27, 495.	3.8	5
57	Sodium dl-phenylglycinate trihydrate: Structural, vibrational and theoretical studies. <i>Journal of Molecular Structure</i> , 2009, 937, 2-9.	3.6	4
58	Phototransformations of 2-aminonicotinic acid resolved with matrix isolation infrared spectroscopy and ab initio calculations. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113187.	3.9	4
59	Complexes of Glycolic Acid with Nitrogen Isolated in Argon Matrices. II. Vibrational Overtone Excitations. <i>Molecules</i> , 2019, 24, 3245.	3.8	3
60	On the unusual IR spectra of the pentachlorophenol $\hat{\epsilon}$ Trimethylamine complex in low temperature matrices. <i>Chemical Physics Letters</i> , 2016, 660, 102-106.	2.6	2
61	Structural and spectroscopic properties of complexes formed between HNCS and SO <sub>2</sub> in low temperature matrices. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 144-149.	3.9	2
62	UV laser induced photolysis of glycolic acid isolated in argon matrices. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 412, 113236.	3.9	2
63	Structure and IR Spectroscopic Properties of HNCO Complexes with SO <sub>2</sub> Isolated in Solid Argon. <i>Molecules</i> , 2021, 26, 6441.	3.8	2
64	Ab initio MP2 and FTIR matrix isolation studies on tert-butanethiol complexes with water. <i>Journal of Molecular Structure</i> , 2008, 872, 166-175.	3.6	1
65	Influence of the features of the spatial and electronic structure of $\hat{\pm}$ -substituted $\hat{2}$ -ethoxyvinyl trifluoromethyl ketones and secondary amines on their reactivity. <i>Journal of Molecular Structure</i> , 2022, 1255, 132417.	3.6	1
66	UV laser-induced photolysis of matrix isolated o-guaiacol. <i>Journal of Molecular Structure</i> , 2018, 1172, 55-64.	3.6	0