

# Jadwiga Frelek

## List of Publications by Year in descending order

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68  
papers

1,290  
citations

331670

21  
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71  
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71  
docs citations

71  
times ranked

1321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical Method for the Absolute Configuration Assignment of tert/tert-1,2-Diols Using Their Complexes with Mo <sub>2</sub> (OAc) <sub>4</sub> . <i>Journal of Organic Chemistry</i> , 2007, 72, 2906-2916.	3.2	144
2	Dinuclear Transition Metal Complexes as Auxiliary Chromophores in Chiroptical Studies on Bioactive Compounds. <i>Current Organic Chemistry</i> , 2003, 7, 1081-1104.	1.6	79
3	Application of [Mo <sub>2</sub> (OAc) <sub>4</sub> ] for determination of absolute configuration of brassinosteroid vic-diols by circular dichroism. <i>Chirality</i> , 1997, 9, 578-582.	2.6	58
4	New Monodentate P,C-Stereogenic Bicyclic Phosphanes: 1-Phenyl-1,3a,4,5,6,6a-hexahydrocyclopenta[b]phosphole and 1-Phenyloctahydrocyclopenta[b]phosphole. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 3913-3918.	2.4	53
5	Absolute configuration of in situ transition metal complexes of ligating natural products from circular dichroism. <i>Pure and Applied Chemistry</i> , 1985, 57, 441-451.	1.9	45
6	Distinguishing between polymorphic forms of linezolid by solid-phase electronic and vibrational circular dichroism. <i>Chemical Communications</i> , 2012, 48, 5295.	4.1	45
7	Transition Metal Complexes as Auxiliary Chromophores in Chiroptical Studies on Carbohydrates. <i>Current Organic Chemistry</i> , 1999, 3, 117-146.	1.6	44
8	Chiral Ytterbium Complex-Catalyzed Direct Asymmetric Aldol-Tishchenko Reaction: Synthesis of anti-1,3-Diols. <i>Chemistry - A European Journal</i> , 2006, 12, 8158-8167.	3.3	39
9	Cyclic Dipeptides as Building Units of Nano- and Microdevices: Synthesis, Properties, and Structural Studies. <i>Crystal Growth and Design</i> , 2015, 15, 5138-5148.	3.0	34
10	Configurational assignment of sugar erythro-1,2-diols from their electronic circular dichroism spectra with dimolybdenum tetraacetate. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1709-1713.	1.8	31
11	Glucosylceramide Mimics: Highly Potent GCCase Inhibitors and Selective Pharmacological Chaperones for Mutations Associated with Types 1 and 2 Gaucher Disease. <i>ChemMedChem</i> , 2013, 8, 1805-1817.	3.2	27
12	Amine-Catalyzed Direct Aldol Reactions of Hydroxy- and Dihydroxyacetone: Biomimetic Synthesis of Carbohydrates. <i>Journal of Organic Chemistry</i> , 2014, 79, 5728-5739.	3.2	26
13	Synthesis and Structural Analysis of Higher Analogs of Sucrose. <i>Journal of Carbohydrate Chemistry</i> , 2000, 19, 693-715.	1.1	25
14	Chromane helicity rule $\alpha^{\text{C}}$ scope and challenges based on an ECD study of various trolox derivatives. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2235-2254.	2.8	25
15	Chiroptical properties of steroid 1,3-diaxial diols in the presence of [Mo <sub>2</sub> (OAc) <sub>4</sub> ]. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 345, 683-687.	1.5	24
16	Application of [Mo <sub>2</sub> (OAc) <sub>4</sub> ] for determination of absolute configuration of pyranoid and furanoid vic-diols by circular dichroism. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 1363-1372.	1.8	24
17	Configurational assignment of vic-amino alcohols from their circular dichroism spectra with dirhodium tetraacetate as an auxiliary chromophore. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 2809-2816.	1.8	23
18	An improved methodology for the synthesis of 1-C-allyl imino-d-xylitol and l-arabinitol and their rapid functionalization. <i>Tetrahedron</i> , 2013, 69, 3348-3354.	1.9	23

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19	Self-assembly of (boron-dipyrromethane)-diphenylalanine conjugates forming chiral supramolecular materials. <i>Nanoscale</i> , 2018, 10, 1735-1741.	5.6	23
20	Effects of Extended Aryl-Substituted Bisoxazoline Ligands in Asymmetric Synthesis - Efficient Synthesis and Application of 4,4'-Bis(1-Naphthyl)-, 4,4'-Bis(2-Naphthyl)- and 4,4'-Bis(9-Anthryl)-2,2'-isopropylidenebis(1,3-oxazolines). <i>European Journal of Organic Chemistry</i> , 2005, 2005, 4975-4987.	2.4	22
21	Determination of the absolute configurations using electronic and vibrational circular dichroism measurements and quantum chemical calculations. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 1720-1724.	1.8	22
22	Denaturation of proteins by surfactants studied by the Taylor dispersion analysis. <i>PLoS ONE</i> , 2017, 12, e0175838.	2.5	22
23	Stereochemical Assignment of $\beta$ -lactam Antibiotics and their Analogues by Electronic Circular Dichroism Spectroscopy. <i>Current Organic Chemistry</i> , 2010, 14, 1022-1036.	1.6	19
24	Prediction of ROA and ECD Related to Conformational Changes of Astaxanthin Enantiomers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12193-12201.	2.6	19
25	An Enantioselective Synthesis of 3,4-Benzo-5-oxacephams. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 338-341.	2.4	18
26	Synthesis of N,4-diaryl substituted $\beta$ -lactams via Kinugasa cycloaddition/rearrangement reaction. <i>Tetrahedron</i> , 2012, 68, 10806-10817.	1.9	18
27	Comprehensive Spectroscopic Characterization of Finasteride Polymorphic Forms. Does the Form X Exist?. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1650-1657.	3.3	18
28	Chiroptical properties of pyranoid glycols in the presence of $[\text{Mo}_2(\text{O}[2\text{CCH}_3)_4]$ . <i>Carbohydrate Research</i> , 1987, 164, 149-159.	2.3	16
29	Configurational assignment of vic-amino alcohols from their circular dichroism spectra with dirhodium tetracetate as an auxiliary chromophore. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3188-3197.	1.8	16
30	Enantioselective enzymatic desymmetrization of the prochiral pyrimidine acyclonucleoside. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 683-689.	1.8	16
31	Application of Sugar Phosphonates for the Preparation of Higher Carbon Monosaccharides. <i>Journal of Carbohydrate Chemistry</i> , 1999, 18, 961-974.	1.1	14
32	Chiroptical Properties of cisoid Enones from Circular Dichroism (CD) and Anisotropic Circular Dichroism (ACD) Spectroscopy. <i>Chemistry - A European Journal</i> , 2002, 8, 1899.	3.3	14
33	Circular Dichroism of Transition Metal Complexes and Sugar Derivatives Having a Free 1,3-Diol System or an Isolated Hydroxyl Group. <i>Journal of Carbohydrate Chemistry</i> , 1993, 12, 625-639.	1.1	13
34	Dirhodium tetraacetate as an auxiliary chromophore in a circular dichroic study on vic-amino alcohols. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 2437-2448.	1.8	13
35	Dimolybdenum Tetracarboxylates as Auxiliary Chromophores in Chiroptical Studies of vic-Diols. <i>Inorganic Chemistry</i> , 2013, 52, 8250-8263.	4.0	13
36	Complementarity of electronic and vibrational circular dichroism based on stereochemical studies of vic-diols. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 73, 119-128.	11.4	13

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37	Synthesis and Comprehensive Structural and Chiroptical Characterization of Enones Derived from (±)-Santonin by Experiment and Theory. <i>Journal of Organic Chemistry</i> , 2016, 81, 4588-4600.	3.2	13
38	Chemoenzymatic Approach to Optically Active 4-Hydroxy-5-alkylcyclopent-2-en-1-one Derivatives: An Application of a Combined Circular Dichroism Spectroscopy and DFT Calculations to Assignment of Absolute Configuration. <i>Chirality</i> , 2014, 26, 300-306.	2.6	10
39	New Insight into Chiroptical Properties of 1,2-Diols Cyclic Sulfites. <i>Journal of Organic Chemistry</i> , 2009, 74, 7300-7308.	3.2	9
40	Photoinduced Isomerization of 23-Oxosapogenins: Conformational Analysis and Spectroscopic Characterization of 22-Isosapogenins. <i>Journal of Organic Chemistry</i> , 2012, 77, 11257-11269.	3.2	9
41	Comprehensive Chiroptical Study of Proline-Containing Diamide Compounds. <i>Chirality</i> , 2014, 26, 228-242.	2.6	9
42	Structure ↔ chiroptical properties relationship of cisoid enones with an ±-methylenecyclopentanone unit. <i>RSC Advances</i> , 2014, 4, 43977-43993.	3.6	9
43	Circular Dichroism of some steroidal 6-membered ketoximes. <i>Tetrahedron: Asymmetry</i> , 1990, 1, 649-659.	1.8	8
44	Synthesis of a sucrose dimer with enone tether; a study on its functionalization. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1246-1254.	2.2	8
45	Determination of the Stereostructure of Pyrimidine Nucleoside Derivatives with a Combination of Various Chiroptical Methods. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5204-5213.	2.4	8
46	In Depth Analysis of Chiroptical Properties of Enones Derived from Abietic Acid. <i>Journal of Organic Chemistry</i> , 2018, 83, 3547-3561.	3.2	8
47	Atropisomerism in 3,4,5-tri-(2-methoxyphenyl)-2,6-lutidine. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7867-7871.	2.4	7
48	Full Characterization of Linezolid and Its Synthetic Precursors by Solid-State Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3883-3892.	3.3	7
49	Solvation of 2-(hydroxymethyl)-2,5,7,8-tetramethyl-chroman-6-ol revealed by circular dichroism: a case of chromane helicity rule breaking. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22525-22536.	2.8	7
50	A Critical Appraisal of Dimolybdenum Tetraacetate Application in Stereochemical Studies of vic-Diols by Circular Dichroism. <i>Journal of Natural Products</i> , 2020, 83, 955-964.	3.0	7
51	Circular dichroism of In-Situ trinuclear organotransition metal complexes with optically active ligands. <i>Journal of Physical Organic Chemistry</i> , 1988, 1, 33-38.	1.9	6
52	Atropisomerism in Mono- and Diaryl-Substituted 4-Amino-2,6-lutidines. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2966-2971.	2.4	6
53	Chiral crystals from porphyrinoids possessing a very low racemization barrier. <i>CrystEngComm</i> , 2016, 18, 3561-3565.	2.6	6
54	Design, synthesis and biological properties of seco-d-ring modified 1±,25-dihydroxyvitamin D3 analogues. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 171, 144-154.	2.5	6

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55	Synthesis and Spectroscopic Characterization of Dimeric Steroidal Oximes. <i>Liebigs Annalen Der Chemie</i> , 1992, 1992, 715-718.	0.8	5
56	Circular dichroism spectroscopy and DFT calculations in determining absolute configuration and <i>E/Z</i> isomers of conjugated oximes. <i>Chirality</i> , 2017, 29, 653-662.	2.6	5
57	Synthesis and spectroscopic properties of stereoisomeric 5,7-oxido-6-hydroxyiminocholestane derivatives. <i>Journal of Physical Organic Chemistry</i> , 1990, 3, 404-413.	1.9	4
58	Circular dichroism, XCV. Chiroptical properties of stereoisomeric conjugated oximes, I. <i>Liebigs Annalen Der Chemie</i> , 1991, 1991, 89-91.	0.8	4
59	The utility of dimolybdenum tetrakis(1/4-isovalerate) and tetrakis(1/4-pivalate) in the stereochemical studies of various transparent compounds. <i>RSC Advances</i> , 2014, 4, 43691-43707.	3.6	4
60	Chirality sensing of bioactive compounds with amino alcohol unit via circular dichroism. <i>Chirality</i> , 2017, 29, 589-598.	2.6	4
61	Application of [Mo <sub>2</sub> (OAc) <sub>4</sub> ] for determination of absolute configuration of brassinosteroid vicâ€diols by circular dichroism. <i>Chirality</i> , 1997, 9, 578-582.	2.6	4
62	Synthesis and comprehensive structural and physicochemical characterization of dutasteride hydrochloride hydrate solvates. <i>Steroids</i> , 2017, 124, 72-80.	1.8	3
63	Circular dichroism XCIV: Chiroptical properties of stereoisomeric conjugated oximes. Part II. <i>Tetrahedron: Asymmetry</i> , 1991, 2, 381-387.	1.8	2
64	Towards seeking the right chiroptical tool to assign the stereochemistry of bioactive compounds: Effectiveness, challenges, and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116428.	11.4	2
65	Structural, spectroscopic, and computational characterization of the cleavage product of dimolybdenum(II) core under aerobic conditions. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 1431-1442.	1.8	1
66	Research into the oxidation of abietic acidâ€derived enone with atmospheric oxygen. <i>Chirality</i> , 2020, 32, 437-445.	2.6	0
67	Stereospecific Association of C-20 Epimers of 3â€Hydroxy-16-oxo-24-nor-17-azachol-5-eno-23-nitrile. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1997, 52, 749-756.	0.7	0
68	A Holistic Approach to Determining Stereochemistry of Potential Pharmaceuticals by Circular Dichroism with â€Lactams as Test Cases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 273.	4.1	0