

# Jindřich Karban

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/172145/publications.pdf>

Version: 2024-02-01

62  
papers

863  
citations

516710

16  
h-index

552781

26  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1144  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The Effect of Deoxyfluorination on Intermolecular Interactions in the Crystal Structures of 1,6-Anhydro-2,3-epimino-hexopyranoses. <i>Molecules</i> , 2022, 27, 278.  | 3.8 | 0         |
| 2  | Development of $\beta$ -Selective Glycosylation for the Synthesis of Deoxyfluorinated T <sub>N</sub> Antigen Analogues. <i>Journal of Organic Chemistry</i> , 2021, 86, 5073-5090.  | 3.2 | 6         |
| 3  | Synthesis of multiply fluorinated <i>N</i> -acetyl-D-glucosamine and D-galactosamine analogs via the corresponding deoxyfluorinated glucosazide and galactosazide phenyl thioglycosides. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 1086-1095.   | 2.2 | 5         |
| 4  | Selectively Deoxyfluorinated <i>N</i> -Acetylglucosamine Analogues as <sup>19</sup> F NMR Probes to Study Carbohydrate-Galectin Interactions. <i>Chemistry - A European Journal</i> , 2021, 27, 13040-13051.  | 3.3 | 8         |
| 5  | The effect of deoxyfluorination and <i>O</i> -acylation on the cytotoxicity of <i>N</i> -acetyl- <i>D</i> -gluco- and <i>D</i> -galactosamine hemiacetals. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4497-4506.   | 2.8 | 4         |
| 6  | Poly(imidazolium) Carbosilane Dendrimers: Synthesis, Catalytic Activity in Redox Esterification of $\beta$ , $\beta$ -Unsaturated Aldehydes and Recycling via Organic Solvent Nanofiltration. <i>Catalysts</i> , 2021, 11, 1317.  | 3.5 | 4         |
| 7  | Synthesis of a Helical Phosphine and a Catalytic Study of Its Palladium Complex. <i>ACS Omega</i> , 2020, 5, 882-892.   | 3.5 | 8         |
| 8  | Harmless glucose-modified ruthenium complexes suppressing cell migration of highly invasive cancer cell lines. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5318.   | 3.5 | 6         |
| 9  | Ferrocenes as new anticancer drug candidates: Determination of the mechanism of action. <i>European Journal of Pharmacology</i> , 2020, 867, 172825.  | 3.5 | 27        |
| 10 | Ruthenium tetrazene complexes bearing glucose moieties on their periphery: Synthesis, characterization, and <i>in vitro</i> cytotoxicity. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5896.  | 3.5 | 7         |
| 11 | Imidazolium Based Fluorous <i>N</i> -Heterocyclic Carbenes as Effective and Recyclable Organocatalysts for Redox Esterification. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3591-3598.  | 2.4 | 7         |
| 12 | The Cytotoxic Effect of Newly Synthesized Ferrocenes against Cervical Carcinoma Cells Alone and in Combination with Radiotherapy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3728.   | 2.5 | 4         |
| 13 | Use of remote acyl groups for stereoselective 1,2- <i>cis</i> -glycosylation with fluorinated glucosazide thiodonors. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 5427-5434.  | 2.8 | 8         |
| 14 | Activity and selectivity of Co(Ni)Mo sulfides supported on MgO, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , TiO <sub>2</sub> , MCM-41 and activated carbon in parallel hydrodeoxygenation of octanoic acid and hydrodesulfurization of 1-benzothiophene. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 127, 887-902. | 1.7 | 24        |
| 15 | Fractionation of turmerones from turmeric SFE isolate using semi-preparative supercritical chromatography technique. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 223-229.  | 5.8 | 9         |
| 16 | Stereoselectivity in Glycosylation with Deoxyfluorinated Glucosazide and Galactosazide Thiodonors. <i>Journal of Organic Chemistry</i> , 2019, 84, 6405-6431.   | 3.2 | 10        |
| 17 | Improving cytotoxic properties of ferrocenes by incorporation of saturated N-heterocycles. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 141-151.   | 1.8 | 11        |
| 18 | Synthesis and <i>in vitro</i> cytotoxicity of acetylated 3-fluoro, 4-fluoro and 3,4-difluoro analogs of D-glucosamine and D-galactosamine. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 750-759.   | 2.2 | 20        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | A comprehensive LC/MS analysis of novel cyclopentenedione library. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 128, 342-351.  | 2.8  | 2         |
| 20 | PM2.5 chemical composition at a rural background site in Central Europe, including correlation and air mass back trajectory analysis. <i>Atmospheric Research</i> , 2016, 176-177, 108-120.  | 4.1  | 73        |
| 21 | Evaluation of cytotoxic activity of titanocene difluorides and determination of their mechanism of action in ovarian cancer cells. <i>Investigational New Drugs</i> , 2015, 33, 1123-1132.   | 2.6  | 12        |
| 22 | The effect of transient operations on the levels and congener profiles of PCBz, PCPh and PCDD/F in raw flue gases of MSWI plant. <i>Chemosphere</i> , 2015, 118, 261-267.  | 8.2  | 16        |
| 23 | Synthesis and fluorophilicity of compounds with tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silyl substituent. <i>Journal of Fluorine Chemistry</i> , 2015, 178, 23-29.  | 1.7  | 5         |
| 24 | Electrochemical analysis of a novel ferrocene derivative as a potential antitumor drug. <i>Analyst</i> , The, 2015, 140, 5864-5867.  | 3.5  | 12        |
| 25 | A Convenient Route to Peracetylated 3-Deoxy-3-fluoro Analogues of d-Glucosamine and d-Galactosamine from a 1,2-Epoxy. <i>Synlett</i> , 2014, 25, 1253-1256.  | 1.8  | 3         |
| 26 | Titanocene dichloride complexes bonded to carbosilane dendrimers via a spacer of variable length – Molecular dynamics calculations and catalysis of allylic coupling reactions. <i>Inorganica Chimica Acta</i> , 2014, 409, 137-146.   | 2.4  | 6         |
| 27 | Synthesis of substituted titanocene dichloride derivatives by hydrosilylation. <i>Journal of Organometallic Chemistry</i> , 2014, 768, 115-120.  | 1.8  | 1         |
| 28 | Enrichment of <i>Nigella damascena</i> extract with volatile compounds using supercritical fluid extraction. <i>Journal of Supercritical Fluids</i> , 2014, 94, 160-164.   | 3.2  | 10        |
| 29 | The rearrangement of 1-methylcyclohex-1-ene during the hydrodesulfurization of FCC gasoline over supported Co(Ni)Mo/Al <sub>2</sub> O <sub>3</sub> sulfide catalysts: the isolation and identification of branched cyclic C7 olefins. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 112, 335-346. | 1.7  | 7         |
| 30 | Titanocene Dihalides and Ferrocenes Bearing a Pendant 1-Xylofuranos-5-yl or 1-Ribofuranos-5-yl Moiety. Synthesis, Characterization, and Cytotoxic Activity. <i>Organometallics</i> , 2014, 33, 2059-2070.  | 2.3  | 18        |
| 31 | Effect of separation method on chemical composition and insecticidal activity of Lamiaceae isolates. <i>Industrial Crops and Products</i> , 2013, 47, 69-77.   | 5.2  | 25        |
| 32 | Intramolecular Cascade Hydroarylation/Cycloisomerization Strategy for the Synthesis of Polycyclic Aromatic and Heteroaromatic Systems. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 260-263.   | 2.4  | 32        |
| 33 | LC-NMR Technique in the Analysis of Phytosterols in Natural Extracts. <i>Journal of Analytical Methods in Chemistry</i> , 2013, 2013, 1-7.   | 1.6  | 11        |
| 34 | Skeletal rearrangements resulting from reactions of 1,6:2,3- and 1,6:3,4-dianhydro-1,2-d-hexopyranoses with diethylaminosulphur trifluoride. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 394-403.  | 2.8  | 19        |
| 35 | Identification of branched oligosilanes in the phenylsilane dehydrocoupling reaction. <i>Journal of Organometallic Chemistry</i> , 2012, 710, 20-25.   | 1.8  | 4         |
| 36 | Preparation of Al-SBA-15 pellets with low amount of additives: Effect of binder content on texture and mechanical properties. Application to Friedel-Crafts alkylation. <i>Chemical Engineering Journal</i> , 2011, 168, 433-440.  | 12.7 | 31        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | The insecticidal activity of <i>Tanacetum parthenium</i> (L.) Schultz Bip. extracts obtained by supercritical fluid extraction and hydrodistillation. <i>Industrial Crops and Products</i> , 2010, 31, 449-454.  | 5.2 | 50        |
| 38 | Synthesis of All Configurational Isomers of 1,6-Anhydro-2,3,4-trideoxy-2,3-epimino-4-fluoro- $\beta$ -D-hexopyranoses. <i>Journal of Organic Chemistry</i> , 2010, 75, 3443-3446.  | 3.2 | 16        |
| 39 | Synthesis of 2-Aza[6]helicene and Attempts To Synthesize 2,14-Diaza[6]helicene Utilizing Metal-Catalyzed Cycloisomerization. <i>Journal of Organic Chemistry</i> , 2010, 75, 3137-3140.  | 3.2 | 43        |
| 40 | The Effects of Extracts Obtained by Supercritical Fluid Extraction and Traditional Extraction Techniques on Larvae of <i>Leptinotarsa decemlineata</i> SAY.. <i>Journal of Essential Oil Research</i> , 2009, 21, 367-373.   | 2.7 | 26        |
| 41 | Ring-Opening Reactions of Aziridines Fused to a Conformationally Locked Tetrahydropyran Ring. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 6399-6406.  | 2.4 | 6         |
| 42 | Synthesis of Hexahelicene and 1-Methoxyhexahelicene via Cycloisomerization of Biphenyl-Naphthalene Derivatives. <i>Journal of Organic Chemistry</i> , 2009, 74, 3090-3093.   | 3.2 | 64        |
| 43 | Molecular structure of eight possible configurational isomers of 2,3- and 3,4-epimino derivatives of 1,6-anhydro- $\beta$ -D-hexopyranoses: conformation analysis, intra- and inter-molecular hydrogen bonds. <i>Carbohydrate Research</i> , 2008, 343, 2789-2796. | 2.3 | 5         |
| 44 | Matrix effects on the de novo synthesis of polychlorinated dibenzo-p-dioxins, dibenzofurans, biphenyls and benzenes. <i>Chemosphere</i> , 2007, 68, 51-61.   | 8.2 | 18        |
| 45 | Synthesis of 1-(2-ethynyl-6-methylphenyl)- and 1-(2-ethynyl-6-methoxyphenyl)-naphthalene and their cyclization. <i>Tetrahedron Letters</i> , 2007, 48, 6814-6816.  | 1.4 | 16        |
| 46 | Chemistry of Carbohydrate Aziridines. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2006, 60, 27-101.   | 0.9 | 10        |
| 47 | Microwave photochemistry III: Photochemistry of 4-tert-butylphenol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 174, 38-44.   | 3.9 | 14        |
| 48 | Preparation of N-nosyl-3,4-epimines derived from levoglucosan by sodium borohydride reduction. <i>Carbohydrate Research</i> , 2005, 340, 503-506.  | 2.3 | 6         |
| 49 | Microwave photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 197-204.   | 3.9 | 15        |
| 50 | Silylation of N,O-Diacylhydroxylamines: $^1$ H NMR Spectra and Structure of the Products. <i>Organometallics</i> , 2004, 23, 2157-2161.  | 2.3 | 3         |
| 51 | Synthesis of 1,6-Anhydro-2,3,4-trideoxy-2,3-epimino- and 1,6-Anhydro-2,3,4-trideoxy-3,4-epimino- $\beta$ -D-hexopyranoses and Their NMR and Infrared Spectra. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 1939-1954.                     | 1.0 | 3         |
| 52 | Dechlorination ability of municipal waste incineration fly ash for polychlorinated phenols. <i>Chemosphere</i> , 2004, 56, 935-942.  | 8.2 | 6         |
| 53 | Dehalogenation potential of municipal waste incineration fly ash. <i>Environmental Science and Pollution Research</i> , 2003, 10, 39-43.   | 5.3 | 6         |
| 54 | Dehalogenation Potential of Municipal Waste Incineration Fly Ash. <i>Environmental Science and Pollution Research</i> , 2003, 10, 121-125.   | 5.3 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Assignment of chemical shifts in benzohydroxamic acid and structure of its silylated derivatives by <sup>15</sup> N enrichment. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 626-628.   | 1.9 | 2         |
| 56 | Utilization of nosylepimines of 1,6-anhydro- <sup>12</sup> -D-hexopyranoses for the preparation of halogenated aminosaccharides. <i>Carbohydrate Research</i> , 2003, 338, 2825-2833.   | 2.3 | 8         |
| 57 | Effect of reaction time on PCDD and PCDF formation by de novo synthetic reactions under oxygen deficient and rich atmosphere. <i>Chemosphere</i> , 2002, 49, 691-696.   | 8.2 | 14        |
| 58 | Preparation of O-, S- and N-Benzyl Derivatives of 1,6-Anhydro- <sup>12</sup> -D-hexopyranoses via Aziridine Ring Opening. <i>Collection of Czechoslovak Chemical Communications</i> , 2002, 67, 1805-1819.  | 1.0 | 8         |
| 59 | NMR study of E/Z isomerism in N-alkoxybenzimidic acid derivatives. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, 672-676.  | 1.9 | 2         |
| 60 | Synthesis and NMR Spectra of 1,6-Anhydro-2,3-dideoxy-2,3-epimino- and 1,6-Anhydro-3,4-dideoxy-3,4-epimino- <sup>12</sup> -D-hexopyranoses. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 799-819.   | 1.0 | 17        |
| 61 | Structure of monosilylated benzhydroxamic acids in crystals and solutions. <i>Journal of Organometallic Chemistry</i> , 2001, 628, 81-90.   | 1.8 | 4         |
| 62 | Titanium-catalyzed head-to-tail dimerization of tert-butylacetylene. Crystal structures of [(C <sub>5</sub> HMe <sub>4</sub> ) <sub>2</sub> Ti( <sup>13</sup> C-H) <sub>2</sub> Mg(THF)( <sup>13</sup> C-Cl)] <sub>2</sub> (THF-tetrahydrofuran) and (C <sub>5</sub> HMe <sub>4</sub> ) <sub>2</sub> TiOCMe <sub>3</sub> . <i>Journal of Organometallic Chemistry</i> , 1999, 577, 103-112. | 1.8 | 42        |