

Ivan Halasz

List of Publications by Year in descending order

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92
papers

4,586
citations

101543

36
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106344

65
g-index

103
all docs

103
docs citations

103
times ranked

3961
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Mechanistic Insights on the Mechanosynthesis of Phenytoin, a WHO Essential Medicine**. Chemistry - A European Journal, 2022, 28, . | 3.3 | 20 |
| 2 | Mechanochemical vs Wet Approach for Directing CO ₂ Capture toward Various Carbonate and Bicarbonate Networks. ACS Sustainable Chemistry and Engineering, 2022, 10, 4374-4380. | 6.7 | 3 |
| 3 | Toward Mechanistic Understanding of Mechanochemical Reactions Using Real-Time <i>In Situ</i> Monitoring. Accounts of Chemical Research, 2022, 55, 1262-1277. | 15.6 | 34 |
| 4 | Mechanistic Study of the Mechanochemical Pd ^{II} -Catalyzed Bromination of Aromatic C-H Bonds by Experimental and Computational Methods. Organometallics, 2022, 41, 1284-1294. | 2.3 | 8 |
| 5 | Open versus Interpenetrated: Switchable Supramolecular Trajectories in Mechanosynthesis of a Halogen-Bonded Borromean Network. Chem, 2021, 7, 146-154. | 11.7 | 17 |
| 6 | Mechanochemical Synthesis and Thermal Dehydrogenation of Novel Calcium-Containing Bimetallic Amidoboranes. ACS Sustainable Chemistry and Engineering, 2021, 9, 2089-2099. | 6.7 | 5 |
| 7 | Raman spectroscopy for real-time and in situ monitoring of mechanochemical milling reactions. Nature Protocols, 2021, 16, 3492-3521. | 12.0 | 46 |
| 8 | Using Desmotropes, Cocrystals, and Salts to Manipulate Reactivity in Mechanochemical Organic Reactions. Journal of Organic Chemistry, 2021, 86, 14160-14168. | 3.2 | 14 |
| 9 | Real-Time Observation of <i>Soft</i> Magic-Size Clusters during Hydrolysis of the Model Metallodrug Bismuth Disalicylate. Journal of the American Chemical Society, 2021, 143, 16332-16336. | 13.7 | 5 |
| 10 | Mechanochemical oxidation of graphite for graphene-hydrogel applications: Pitfalls and benefits. Materials, 2020, 14, 100908. | 2.7 | 3 |
| 11 | A Detailed Kinetic-Mechanistic Investigation on the Palladium C-H Bond Activation in Azobenzenes and Their Monopalladated Derivatives. Inorganic Chemistry, 2020, 59, 17123-17133. | 4.0 | 7 |
| 12 | Mechanochemical Metathesis between AgNO ₃ and NaX (X = Cl, Br, I) and Ag ₂ XNO ₃ Double-Salt Formation. Inorganic Chemistry, 2020, 59, 12200-12208. | 4.0 | 7 |
| 13 | DNA-specific selectivity in pairing of model nucleobases in the solid state. Chemical Communications, 2020, 56, 13524-13527. | 4.1 | 7 |
| 14 | Kabachnik-Fields Reaction by Mechanochemistry: New Horizons from Old Methods. ACS Sustainable Chemistry and Engineering, 2020, 8, 18889-18902. | 6.7 | 18 |
| 15 | Mechanochemical Preparation of Active Pharmaceutical Ingredients Monitored by <i>In Situ</i> Raman Spectroscopy. ACS Omega, 2020, 5, 28663-28672. | 3.5 | 38 |
| 16 | Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie - International Edition, 2020, 59, 13458-13462. | 13.8 | 41 |
| 17 | Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie, 2020, 132, 13560-13564. | 2.0 | 12 |
| 18 | European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,62 Td (<i> | 2.4 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Impact of dehydration and mechanical amorphization on the magnetic properties of Ni(μ_2)-MOF-74. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7132-7142. | 5.5 | 21 |
| 20 | Direct Mechano catalysis: Palladium as Milling Media and Catalyst in the Mechanochemical Suzuki Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18942-18947. | 13.8 | 75 |
| 21 | Facile Mechanochemical Anion Substitution in Cyclopalladated Azo-Benzenes. <i>Organometallics</i> , 2019, 38, 4479-4484. | 2.3 | 8 |
| 22 | Direkte Mechanokatalyse: Palladium als Mahlmittel und Katalysator in der mechanochemischen Suzuki-Polymerisation. <i>Angewandte Chemie</i> , 2019, 131, 19118-19123. | 2.0 | 23 |
| 23 | Control of Pharmaceutical Cocrystal Polymorphism on Various Scales by Mechanochemistry: Transfer from the Laboratory Batch to the Large-Scale Extrusion Processing. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7102-7110. | 6.7 | 47 |
| 24 | Isotope Labeling Reveals Fast Atomic and Molecular Exchange in Mechanochemical Milling Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 1212-1216. | 13.7 | 34 |
| 25 | Experimental and Theoretical Study of Selectivity in Mechanochemical Cocrystallization of Nicotinamide with Anthranilic and Salicylic Acid. <i>Crystal Growth and Design</i> , 2018, 18, 1539-1547. | 3.0 | 22 |
| 26 | Enthalpy vs. friction: heat flow modelling of unexpected temperature profiles in mechanochemistry of metal-organic frameworks. <i>Chemical Science</i> , 2018, 9, 2525-2532. | 7.4 | 77 |
| 27 | Mechanochemical carbon-carbon bond formation that proceeds via a cocrystal intermediate. <i>Chemical Communications</i> , 2018, 54, 13216-13219. | 4.1 | 46 |
| 28 | Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 6999-7002. | 4.1 | 63 |
| 29 | Mechanochemistry for solvent-free, base-free preparation of hydantoin-based active pharmaceutical ingredients: nitrofurantoin and dantrolene. <i>Green Chemistry</i> , 2018, 20, 2973-2977. | 9.0 | 78 |
| 30 | Mechanism of Mechanochemical C-H Bond Activation in an Azobenzene Substrate by Pd(II) Catalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 10672-10682. | 3.3 | 28 |
| 31 | Reversible Gas-Solid Ammonia N-H Bond Activation Mediated by an Organopalladium Complex. <i>Inorganic Chemistry</i> , 2017, 56, 5342-5351. | 4.0 | 11 |
| 32 | Tandem In Situ Monitoring for Quantitative Assessment of Mechanochemical Reactions Involving Structurally Unknown Phases. <i>Chemistry - A European Journal</i> , 2017, 23, 13941-13949. | 3.3 | 70 |
| 33 | In Situ Monitoring of the Mechanosynthesis of the Archetypal Metal-Organic Framework HKUST-1: Effect of Liquid Additives on the Milling Reactivity. <i>Inorganic Chemistry</i> , 2017, 56, 6599-6608. | 4.0 | 98 |
| 34 | In Situ and Real-time Monitoring of Mechanochemical Preparation of $\text{Li}_2\text{Mg}(\text{NH}_2)_4$ and $\text{Na}_2\text{Mg}(\text{NH}_2)_4$ and Their Thermal Dehydrogenation. <i>Chemistry - A European Journal</i> , 2017, 23, 16274-16282. | 3.3 | 21 |
| 35 | Solvent-free copper-catalyzed click chemistry for the synthesis of N-heterocyclic hybrids based on quinoline and 1,2,3-triazole. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2352-2363. | 2.2 | 40 |
| 36 | Solid-State Chemistry and Polymorphism of the Nucleobase Adenine. <i>Crystal Growth and Design</i> , 2016, 16, 3262-3270. | 3.0 | 21 |

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|----|--|------|-----------|
| 37 | Vapour-induced solid-state C-H bond activation for the clean synthesis of an organopalladium biothiol sensor. <i>Chemical Communications</i> , 2016, 52, 12960-12963. | 4.1 | 15 |
| 38 | Mechanochemical Preparation of 3,5-Disubstituted Hydantoins from Dipeptides and Unsymmetrical Ureas of Amino Acid Derivatives. <i>Journal of Organic Chemistry</i> , 2016, 81, 9802-9809. | 3.2 | 29 |
| 39 | On the predictability of supramolecular interactions in molecular cocrystals – the view from the bench. <i>CrystEngComm</i> , 2016, 18, 5434-5439. | 2.6 | 47 |
| 40 | Synthesis and structure characterization of zinc and cadmium dipeptide coordination polymers. <i>New Journal of Chemistry</i> , 2016, 40, 4252-4257. | 2.8 | 13 |
| 41 | <i>In Situ</i> Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 2929-2932. | 13.7 | 194 |
| 42 | Exploring the Effect of Temperature on a Mechanochemical Reaction by <i>In Situ</i> Synchrotron Powder X-ray Diffraction. <i>Crystal Growth and Design</i> , 2016, 16, 2342-2347. | 3.0 | 93 |
| 43 | <i>In situ</i> X-ray diffraction monitoring of a mechanochemical reaction reveals a unique topology metal-organic framework. <i>Nature Communications</i> , 2015, 6, 6662. | 12.8 | 294 |
| 44 | Mechanochemical reactions studied by <i>in situ</i> Raman spectroscopy: base catalysis in liquid-assisted grinding. <i>Chemical Communications</i> , 2015, 51, 8058-8061. | 4.1 | 79 |
| 45 | Real-Time and <i>In Situ</i> Monitoring of Mechanochemical Reactions: A New Playground for All Chemists. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4129-4140. | 4.6 | 149 |
| 46 | Anthracene adamantylbisurea receptors: switching of anion binding by photocyclization. <i>Tetrahedron</i> , 2015, 71, 9321-9327. | 1.9 | 9 |
| 47 | Reactivity of Cations and Zwitterions Formed in Photochemical and Acid-Catalyzed Reactions from <i>m</i> -Hydroxycycloalkyl-Substituted Phenol Derivatives. <i>Journal of Organic Chemistry</i> , 2015, 80, 12420-12430. | 3.2 | 4 |
| 48 | Crystal structure of copper(II) citrate monohydrate solved from a mixture powder X-ray diffraction pattern. <i>Powder Diffraction</i> , 2014, 29, 28-32. | 0.2 | 3 |
| 49 | Mechanochemically induced cross-dimerizations of nitrosobenzenes. Kinetics and solid-state isotope effects. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 177-182. | 1.9 | 5 |
| 50 | Laboratory Real-Time and <i>In Situ</i> Monitoring of Mechanochemical Milling Reactions by Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6193-6197. | 13.8 | 160 |
| 51 | Aging and Ball-Milling as Low-Energy and Environmentally Friendly Methods for the Synthesis of Pd(II) Photosensitizers. <i>Organometallics</i> , 2014, 33, 1227-1234. | 2.3 | 27 |
| 52 | Quantitative <i>in situ</i> and real-time monitoring of mechanochemical reactions. <i>Faraday Discussions</i> , 2014, 170, 203-221. | 3.2 | 73 |
| 53 | The physiological target for LeuRS translational quality control is norvaline. <i>EMBO Journal</i> , 2014, 33, 1639-1653. | 7.8 | 58 |
| 54 | Multiple Solid Forms of 1,5-Bis(salicylidene)carbohydrazide: Polymorph-Modulated Thermal Reactivity. <i>Crystal Growth and Design</i> , 2014, 14, 2900-2912. | 3.0 | 16 |

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|----|---|------|-----------|
| 55 | The curious case of (caffeine)⋅(benzoic acid): how heteronuclear seeding allowed the formation of an elusive cocrystal. <i>Chemical Science</i> , 2013, 4, 4417. | 7.4 | 115 |
| 56 | In situ and real-time monitoring of mechanochemical milling reactions using synchrotron X-ray diffraction. <i>Nature Protocols</i> , 2013, 8, 1718-1729. | 12.0 | 132 |
| 57 | Real-time In-situ Powder X-ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11538-11541. | 13.8 | 141 |
| 58 | ViO⋅C interactions in crystal structures of oxovanadium-coordination compounds. <i>New Journal of Chemistry</i> , 2013, 37, 619-623. | 2.8 | 13 |
| 59 | Aryl substituted adamantane⋅dipyrrromethanes: chromogenic and fluorescent anion sensors. <i>Tetrahedron</i> , 2013, 69, 1725-1734. | 1.9 | 15 |
| 60 | Real-time and in situ monitoring of mechanochemical milling reactions. <i>Nature Chemistry</i> , 2013, 5, 66-73. | 13.6 | 493 |
| 61 | Photoinduced H⋅Abstraction in Homo⋅and Protoadamantylphthalimide Derivatives in Solution and in Organized and Constrained Media. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 929-938. | 2.4 | 7 |
| 62 | Dynamic Molecular Recognition in Solid State for Separating Mixtures of Isomeric Dicarboxylic Acids. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5504-5508. | 13.8 | 44 |
| 63 | An Old Story in New Light: X-Ray Powder Diffraction Provides Novel Insights into a Long-Known Organic Solid-State Rearrangement Reaction. <i>Croatica Chemica Acta</i> , 2013, 86, 187-192. | 0.4 | 2 |
| 64 | Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metalloids. <i>Croatica Chemica Acta</i> , 2012, 85, 367-378. | 0.4 | 67 |
| 65 | Mechanosynthesis of nitrosobenzenes: a proof-of-principle study in combining solvent-free synthesis with solvent-free separations. <i>Green Chemistry</i> , 2012, 14, 1597. | 9.0 | 50 |
| 66 | Structures of four polymorphs of the pesticide dithianon solved from X-ray powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 661-666. | 1.8 | 4 |
| 67 | A model for a solvent-free synthetic organic research laboratory: click-mechanosynthesis and structural characterization of thioureas without bulk solvents. <i>Green Chemistry</i> , 2012, 14, 2462. | 9.0 | 80 |
| 68 | Three routes to nickel(ii) salicylaldehyde 4-phenyl and 4-methylthiosemicarbazonato complexes: mechanochemical, electrochemical and conventional approach. <i>CrystEngComm</i> , 2012, 14, 3039. | 2.6 | 16 |
| 69 | Desmotropy, Polymorphism, and Solid-State Proton Transfer: Four Solid Forms of an Aromatic <i>o</i> -Hydroxy Schiff Base. <i>Chemistry - A European Journal</i> , 2012, 18, 5620-5631. | 3.3 | 41 |
| 70 | Thermally induced crystal-to-crystal transformations accompanied by changes in the magnetic properties of a Cu ^{II} -p-hydroquinonate polymer. <i>CrystEngComm</i> , 2011, 13, 391-395. | 2.6 | 15 |
| 71 | Surface nucleation in solid-state dimerisation of nitrosobenzenes promoted by sublimation. <i>CrystEngComm</i> , 2011, 13, 4307. | 2.6 | 10 |
| 72 | The cocrystal of 4-oxopimelic acid and 4,4'-bipyridine: polymorphism and solid-state transformations. <i>New Journal of Chemistry</i> , 2011, 35, 24-27. | 2.8 | 15 |

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|----|--|------|-----------|
| 73 | A rational approach to screen for hydrated forms of the pharmaceutical derivative magnesium naproxen using liquid-assisted grinding. <i>CrystEngComm</i> , 2011, 13, 3125. | 2.6 | 40 |
| 74 | Mechanosynthesis of the Metallodrug Bismuth Subsalicylate from Bi ₂ O ₃ and Structure of Bismuth Salicylate without Auxiliary Organic Ligands. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7858-7861. | 13.8 | 110 |
| 75 | Ion- and Liquid-Assisted Grinding: Improved Mechanochemical Synthesis of Metal-Organic Frameworks Reveals Salt Inclusion and Anion Templating. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 712-715. | 13.8 | 343 |
| 76 | Structural and thermal characterization of zolpidem hemitartrate hemihydrate (form E) and its decomposition products by laboratory x-ray powder diffraction. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 871-878. | 3.3 | 13 |
| 77 | Parametric Rietveld refinement for the evaluation of powder diffraction patterns collected as a function of pressure. <i>Journal of Applied Crystallography</i> , 2010, 43, 504-510. | 4.5 | 10 |
| 78 | Single-Crystal-to-Single-Crystal Reactivity: Gray, Rather than Black or White. <i>Crystal Growth and Design</i> , 2010, 10, 2817-2823. | 3.0 | 91 |
| 79 | Electrochemical synthesis and crystal structure of a penta-coordinated silver(II) macrocyclic complex. <i>Inorganica Chimica Acta</i> , 2009, 362, 4009-4012. | 2.4 | 3 |
| 80 | Synthesis, structural characterization, and anion binding ability of sterically congested adamantane-calix[4]pyrroles and adamantane-calixphyrins. <i>Tetrahedron</i> , 2009, 65, 2051-2058. | 1.9 | 20 |
| 81 | Cross-dimerization of nitrosobenzenes in solution and in solid state. <i>Journal of Molecular Structure</i> , 2009, 918, 19-25. | 3.6 | 25 |
| 82 | Structural, Spectroscopic and Thermal Characterisation of bis (dibenzoylmethanato)Cd(II) Adducts with Dimethylsulfoxide and Water. <i>Journal of Chemical Crystallography</i> , 2008, 38, 793-800. | 1.1 | 2 |
| 83 | Hydrogen phosphate and dihydrogen phosphate salts of 4-aminoazobenzene. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, o61-o64. | 0.4 | 6 |
| 84 | Self-assembly of bis(1,3-diphenylpropane-1,3-dionato- λ^2 O, λ^2 O)bis(thiomorpholine- λ^1 N)cobalt(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m283-m285. | 0.2 | 1 |
| 85 | N-Benzyl-4-(hydroxyiminomethyl)pyridinium bromide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o2423-o2424. | 0.2 | 3 |
| 86 | 2-Bromoethyl 2,3,4,6-tetra-O-acetyl- β -D-glucopyranoside. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2644-o2645. | 0.2 | 1 |
| 87 | Solid-State Reaction Mechanisms in Monomer-Dimer Interconversions of p-Bromonitrosobenzene. Single-Crystal-to-Single-Crystal Photodissociation and Formation of New Non-van der Waals Close Contacts. <i>Journal of Organic Chemistry</i> , 2005, 70, 8461-8467. | 3.2 | 33 |
| 88 | Bis(dimethyl sulfoxide- λ^1 O)bis(1-phenylbutane-1,3-dionato- λ^2 O, λ^2 O)nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m367-m369. | 0.2 | 4 |
| 89 | The first adduct of bis(1,3-diphenyl-1,3-propanedionato)oxovanadium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m1920-m1922. | 0.2 | 4 |
| 90 | Nitrosobenzene Dimerizations as a Model System for Studying Solid-State Reaction Mechanisms. <i>Journal of Organic Chemistry</i> , 2004, 69, 4829-4834. | 3.2 | 19 |

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|----|--|-----|-----------|
| 91 | Ewolucja węgierskiego modelu zarządzania s...downictwem i samorz...du s...dziewskiego na W...grzech w latach 1989-2019. Przegląd Prawa i Administracji, 0, 119, 171-180. | 0.0 | 1 |
| 92 | Mechanochemical halogenation of unsymmetrically substituted azobenzenes. Beilstein Journal of Organic Chemistry, 0, 18, 680-687. | 2.2 | 6 |