

Istvan Halasz

List of Publications by Year in descending order

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71
papers

1,135
citations

393982

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433756

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docs citations

71
times ranked

936
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Vibrational spectra and dissociation of aqueous Na ₂ SiO ₃ solutions. <i>Catalysis Letters</i> , 2007, 117, 34-42. | 1.4 | 77 |
| 2 | What can vibrational spectroscopy tell about the structure of dissolved sodium silicates?. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 74-81. | 2.2 | 55 |
| 3 | Molecular spectra and polarity sieving of aluminum deficient hydrophobic H-Y zeolites. <i>Microporous and Mesoporous Materials</i> , 2005, 84, 318-331. | 2.2 | 49 |
| 4 | Thermoanalytical and x-ray diffraction investigations of Ba ₂ Cu ₃ O _{5+d} for preparation of Y-Ba-Cu-O superconductors. <i>Journal of Crystal Growth</i> , 1988, 91, 444-449. | 0.7 | 48 |
| 5 | ²⁹ Si NMR and Raman Glimpses into the Molecular Structures of Acid and Base Set Silica Gels Obtained from TEOS and Na-Silicate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24788-24799. | 1.5 | 45 |
| 6 | Catalytic reduction of nitric oxide on PdO-MoO ₃ /Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 1993, 2, 131-146. | 10.8 | 43 |
| 7 | Uncommon Adsorption Isotherm of Methanol on a Hydrophobic Y-zeolite. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10788-10796. | 1.2 | 43 |
| 8 | Hydrophilic and hydrophobic adsorption on Y zeolites. <i>Molecular Physics</i> , 2002, 100, 3123-3132. | 0.8 | 43 |
| 9 | Active sites of H-ZSM5 catalysts for the oxidation of nitric oxide by oxygen. <i>Catalysis Letters</i> , 1995, 34, 151-161. | 1.4 | 40 |
| 10 | Preparation and characterization of PdO-MoO ₃ /Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 1992, 82, 51-63. | 2.2 | 37 |
| 11 | On existence of hydroxyl nests in acid dealuminated zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2014, 186, 94-100. | 2.2 | 37 |
| 12 | Positron annihilation and N ₂ adsorption for nanopore determination in silica-polymer composites. <i>RSC Advances</i> , 2012, 2, 3729. | 1.7 | 33 |
| 13 | Catalytic Activity and Selectivity of H-ZSM5 for the Reduction of Nitric Oxide by Propane in the Presence of Oxygen. <i>Journal of Catalysis</i> , 1996, 161, 359-372. | 3.1 | 32 |
| 14 | Selective oxidation and dehydrogenation of methanol on Y-Ba-Cu-O catalysts. <i>Applied Catalysis</i> , 1989, 47, L17-L22. | 1.1 | 28 |
| 15 | Comparison of oxidation of carbon monoxide on superconducting and insulating Y-Ba-Cu-O catalysts. <i>Journal of Catalysis</i> , 1990, 126, 109-114. | 3.1 | 28 |
| 16 | Continuous monitoring the oxyfunctionalization of hexane by aqueous H ₂ O ₂ over TS-1 related catalysts. <i>Applied Catalysis A: General</i> , 2003, 241, 167-184. | 2.2 | 27 |
| 17 | Monitoring the structure of water soluble silicates. <i>Catalysis Today</i> , 2007, 126, 196-202. | 2.2 | 27 |
| 18 | Reduction of NO by CO on PdO-MoO ₃ /Al ₂ O ₃ of low molybdena loading. <i>Catalysis Letters</i> , 1992, 16, 311-321. | 1.4 | 23 |

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|----|---|-----|-----------|
| 19 | Delicate Distinction between OH Groups on Proton-Exchanged H-Chabazite and H-SAPO-34 Molecular Sieves. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24046-24055. | 1.5 | 21 |
| 20 | High T _c superconductivity of a Tl _{1-x} Ba _{1-x} Ca _{1-x} Cu _{1-x} O compound. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 130, 39-42. | 0.9 | 18 |
| 21 | Determination of the oxygen content in superconducting and related cuprates using temperature-programmed reduction. <i>Journal of Solid State Chemistry</i> , 1991, 92, 327-338. | 1.4 | 18 |
| 22 | Reduction of NO by H ₂ on PdO-MoO ₃ /Al ₂ O ₃ of low molybdena loading. <i>Catalysis Letters</i> , 1993, 18, 289-297. | 1.4 | 18 |
| 23 | Further Search for Hydroxyl Nests in Acid Dealuminated Zeolite Y. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8619-8625. | 1.5 | 17 |
| 24 | Insight into the structure of polymer-silica nano-composites prepared by vapor-phase. <i>Journal of Colloid and Interface Science</i> , 2015, 441, 65-70. | 5.0 | 17 |
| 25 | Decomposition of nitric oxide and its reduction by CO over superconducting and related cuprate catalysts. <i>Catalysis Letters</i> , 1991, 11, 327-334. | 1.4 | 16 |
| 26 | Title is missing!. <i>Catalysis Letters</i> , 1998, 51, 195-206. | 1.4 | 16 |
| 27 | Rate Determining Step in Alcohol Dehydration on La ₂ O ₃ , ThO ₂ and MoO ₃ , and Relations to Double Bond Shift in Olefins. <i>Zeitschrift Fur Physikalische Chemie</i> , 1985, 144, 157-163. | 1.4 | 15 |
| 28 | Oxidation of carbon monoxide over barium cuprate catalysts. <i>Catalysis Letters</i> , 1990, 6, 349-360. | 1.4 | 15 |
| 29 | Non-bulk superconductivity induced by neutron irradiation in multiphase YBa ₂ Cu ₃ O ₇ and Tl ₂ Ca ₁ Ba ₂ Cu ₂ O ₈ . <i>Physica C: Superconductivity and Its Applications</i> , 1990, 165, 83-90. | 0.6 | 14 |
| 30 | Reduction of NO by H ₂ and CO on PdO-MoO ₃ /Al ₂ O ₃ of low molybdena loading. <i>Catalysis Letters</i> , 1993, 22, 147-156. | 1.4 | 14 |
| 31 | Efficient oxyfunctionalization of n-hexane by aqueous H ₂ O ₂ over a new TS-PQ catalyst. <i>Catalysis Today</i> , 2003, 81, 227-245. | 2.2 | 14 |
| 32 | Rate Oscillations and Chemiluminescence in the Selective Catalytic Reduction of NO by Propane over H-ZSM5. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17186-17191. | 2.9 | 13 |
| 33 | Title is missing!. <i>Catalysis Letters</i> , 1999, 63, 217-225. | 1.4 | 12 |
| 34 | Quantifying the n-hexane cracking activity of Fe- and Al-based acid sites in H-ZSM-5. <i>Journal of Catalysis</i> , 2003, 218, 155-162. | 3.1 | 12 |
| 35 | Comparison of Y-Ba-Cu-O compounds prepared from BaCuO ₂ and Ba ₂ Cu ₃ O ₅ ?. <i>Journal of Superconductivity and Novel Magnetism</i> , 1988, 1, 451-461. | 0.5 | 11 |
| 36 | Comparison of double-bond isomerization of hexenes; a diagnostic tool in elucidating the nature of catalytically active centres on metal oxides. <i>Applied Catalysis</i> , 1985, 19, 241-246. | 1.1 | 10 |

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|----|---|-----|-----------|
| 37 | Catalytic oxidation of carbon monoxide over superconducting and related cuprates. Journal of Catalysis, 1992, 134, 731-736. | 3.1 | 9 |
| 38 | Microwave Devulcanized Crumb Rubbers in Polypropylene Based Thermoplastic Dynamic Vulcanizates. Polymers, 2018, 10, 767. | 2.0 | 9 |
| 39 | First observation of structural changes around the T _c in TlBaCaCuO _{4.5+y} superconductor studied by ⁵⁷ Fe Mössbauer spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 1989, 136, 121-125. | 0.7 | 8 |
| 40 | Selective oxidation of methanol on cuprate catalysts. Reaction Kinetics and Catalysis Letters, 1990, 41, 115-120. | 0.6 | 8 |
| 41 | Surface structures of YBa ₂ Cu ₃ O _{7-x} , BiCa _{1-x} Sr _{0.7} Cu ₂ O _x and TlCaBaCuO _{4.5±x} investigated by scanning tunnelling microscopy. Journal of Microscopy, 1988, 152, 407-413. | 0.8 | 7 |
| 42 | Comparative Mössbauer study of high T _c superconductors. Journal of Radioanalytical and Nuclear Chemistry, 1989, 135, 373-380. | 0.7 | 7 |
| 43 | Mössbauer study of Tl containing high T _c superconductors. Hyperfine Interactions, 1990, 55, 1331-1335. | 0.2 | 7 |
| 44 | ⁵⁷ Fe and ¹¹⁹ Sn Mössbauer study of Ti-Containing high T _c superconductors. Hyperfine Interactions, 1992, 70, 1143-1146. | 0.2 | 7 |
| 45 | Failure of compression molded all-polyolefin composites studied by acoustic emission. EXPRESS Polymer Letters, 2015, 9, 321-328. | 1.1 | 7 |
| 46 | 96 Fast and efficient catalytic oxidation of n-hexane by aqueous H ₂ O ₂ over TS-PQ ₂ , a new titanium based silicate. Studies in Surface Science and Catalysis, 2003, , 435-438. | 1.5 | 6 |
| 47 | Structural investigation of the EuBa ₂ Cu ₃ O _{7-δ} high TC superconductor by ¹⁵¹ Eu, ¹¹⁹ Sn, ⁵⁷ Fe and ⁵⁷ Co Mössbauer spectroscopy. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 51-64. | 0.1 | 5 |
| 48 | Dissociation, molweight, and vibrational spectra of aqueous sodium silicate solutions. Studies in Surface Science and Catalysis, 2007, 170, 800-805. | 1.5 | 5 |
| 49 | Novel Bifunctional Additive for Rubbers: Cyclic Butylene Terephthalate Oligomer. Periodica Polytechnica, Mechanical Engineering, 2015, 59, 182-188. | 0.8 | 5 |
| 50 | Effect of adsorbed water on the activity of MoO ₃ catalysts in the double bond isomerization of olefins. Reaction Kinetics and Catalysis Letters, 1979, 12, 411-415. | 0.6 | 4 |
| 51 | Catalytic isomerization of olefins on molybdena, I. Reaction Kinetics and Catalysis Letters, 1979, 11, 5-9. | 0.6 | 4 |
| 52 | CO Oxidation, no Decomposition and no Reduction by CO on Superconducting and Related Cuprates. Studies in Surface Science and Catalysis, 1993, 75, 2201-2204. | 1.5 | 4 |
| 53 | Molecular aspects of solid silica formation. Studies in Surface Science and Catalysis, 2010, 175, 209-216. | 1.5 | 4 |
| 54 | Zeolite Confined Ti(OH) ₄ Nanoparticles in Highly Active and Selective Oxidation Catalyst. Catalysis Letters, 2011, 141, 948-953. | 1.4 | 4 |

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|----|--|-----|-----------|
| 55 | On The Molecular Basis Of Silica Gel Morphology. <i>Advanced Materials Letters</i> , 2015, 6, 40-46. | 0.3 | 4 |
| 56 | Double bond migration of olefins on deuterated and chlorinated Al ₂ O ₃ catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1982, 19, 389-392. | 0.6 | 3 |
| 57 | Effect of starting materials on the critical parameters of superconducting Tl ¹⁻² , Ca ¹⁻² , Ba ¹⁻² , Cu ¹⁻² , O compounds. <i>Cryogenics</i> , 1991, 31, 33-40. | 0.9 | 3 |
| 58 | Characteristics of Nd _{1-x} Ba _{2x} Cu ₃ O _{6.5-y} superconductors. <i>Physica Status Solidi A</i> , 1993, 140, 213-219. | 1.7 | 3 |
| 59 | ¹⁵¹ Eu and ⁵⁷ Fe Mössbauer and X-ray diffraction study of high temperature Tl-containing superconductor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1995, 190, 401-405. | 0.7 | 3 |
| 60 | Decomposition of no over Cu-ZSM-5 prepared by solid-state ion exchange. <i>Reaction Kinetics and Catalysis Letters</i> , 1997, 61, 27-32. | 0.6 | 3 |
| 61 | Molecular spectroscopy of alkaline silicate solutions. <i>Studies in Surface Science and Catalysis</i> , 2008, , 787-792. | 1.5 | 3 |
| 62 | Phase Morphology and Mechanical Properties of Cyclic Butylene Terephthalate Oligomer-Containing Rubbers: Effect of Mixing Temperature. <i>Materials</i> , 2016, 9, 722. | 1.3 | 3 |
| 63 | Hydrophobic nano-layer on surface prevents H ₂ O adsorption in moderately aluminum deficient Y zeolite crystals. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110621. | 2.2 | 3 |
| 64 | Catalytic isomerization of olefins on BeO 3. Adsorption of pyridine on the catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 1979, 12, 77-81. | 0.6 | 2 |
| 65 | Isomerization of olefins on Ta ₂ O ₅ catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1982, 19, 401-404. | 0.6 | 2 |
| 66 | Catalytic isomerization of olefins on BeO. <i>Applied Catalysis</i> , 1984, 9, 213-218. | 1.1 | 2 |
| 67 | A new anomaly of temperature dependence of Mössbauer parameters in the EuBa ₂ (Cu _{0.98} Sn _{0.01}) ₂ T _j ETQq1 1.0.784314 rgBT / 0.7 | 0.7 | 2 |
| 68 | Simulation of silicate structures in their aqueous solutions. <i>Molecular Simulation</i> , 2008, 34, 937-942. | 0.9 | 2 |
| 69 | Molecular Modeling Aspects of Exploring Silica Properties. <i>ACS Symposium Series</i> , 2013, , 113-134. | 0.5 | 1 |
| 70 | Styrene-Butadiene Rubber/Graphene Nanocomposites: Effect of Co-Milling with Cyclic Butylene-Terephthalate. <i>Materials Science Forum</i> , 0, 812, 65-70. | 0.3 | 0 |
| 71 | Estimation for the Si-O Structures Based on the Homology Concept. <i>Advanced Materials Research</i> , 2015, 1102, 113-116. | 0.3 | 0 |