

Miklos Czaun

List of Publications by Year in descending order

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26
papers

3,857
citations

471509

17
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

5171
citing authors

#	ARTICLE	IF	CITATIONS
1	Iridium-Catalyzed Continuous Hydrogen Generation from Formic Acid and Its Subsequent Utilization in a Fuel Cell: Toward a Carbon Neutral Chemical Energy Storage. ACS Catalysis, 2016, 6, 7475-7484.	11.2	75
2	CO ₂ capture by amines in aqueous media and its subsequent conversion to formate with reusable ruthenium and iron catalysts. Green Chemistry, 2016, 18, 5831-5838.	9.0	132
3	Conversion of CO ₂ from Air into Methanol Using a Polyamine and a Homogeneous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 778-781.	13.7	458
4	Amine-Free Reversible Hydrogen Storage in Formate Salts Catalyzed by Ruthenium Pincer Complex without pH Control or Solvent Change. ChemSusChem, 2015, 8, 1442-1451.	6.8	107
5	Single Step Bi-reforming and Oxidative Bi-reforming of Methane (Natural Gas) with Steam and Carbon Dioxide to Metgas (CO+2H ₂) for Methanol Synthesis: Self-Sufficient Effective and Exclusive Oxygenation of Methane to Methanol with Oxygen. Journal of the American Chemical Society, 2015, 137, 8720-8729.	13.7	128
6	Easily Regenerable Solid Adsorbents Based on Polyamines for Carbon Dioxide Capture from the Air. ChemSusChem, 2014, 7, 1386-1397.	6.8	133
7	CO ₂ capture on easily regenerable hybrid adsorbents based on polyamines and mesocellular silica foam. Effect of pore volume of the support and polyamine molecular weight. RSC Advances, 2014, 4, 19403-19417.	3.6	62
8	Recycling of carbon dioxide to methanol and derived products – closing the loop. Chemical Society Reviews, 2014, 43, 7995-8048.	38.1	1,125
9	Formic Acid As a Hydrogen Storage Medium: Ruthenium-Catalyzed Generation of Hydrogen from Formic Acid in Emulsions. ACS Catalysis, 2014, 4, 311-320.	11.2	72
10	Self-Sufficient and Exclusive Oxygenation of Methane and Its Source Materials with Oxygen to Methanol via Metgas Using Oxidative Bi-reforming. Journal of the American Chemical Society, 2013, 135, 10030-10031.	13.7	43
11	Bi-reforming of Methane from Any Source with Steam and Carbon Dioxide Exclusively to Metgas (CO+2H ₂) for Methanol and Hydrocarbon Synthesis. Journal of the American Chemical Society, 2013, 135, 648-650.	13.7	237
12	Organoamines-grafted on nano-sized silica for carbon dioxide capture. Journal of CO ₂ Utilization, 2013, 1, 1-7.	6.8	36
13	Kinetics and mechanism of the base-catalyzed oxygenation of 1H-2-phenyl-3-hydroxy-4-oxoquinolines in DMSO/H ₂ O. Tetrahedron, 2013, 69, 6666-6672.	1.9	7
14	Air as the renewable carbon source of the future: an overview of CO ₂ capture from the atmosphere. Energy and Environmental Science, 2012, 5, 7833.	30.8	549
15	Carbon Dioxide Capture from the Air Using a Polyamine Based Regenerable Solid Adsorbent. Journal of the American Chemical Society, 2011, 133, 20164-20167.	13.7	428
16	Hydrogen Generation from Formic Acid Decomposition by Ruthenium Carbonyl Complexes. Tetraruthenium Dodecacarbonyl Tetrahydride as an Active Intermediate. ChemSusChem, 2011, 4, 1241-1248.	6.8	83
17	Novel Surface-Attachable Multifunctional Initiators: Synthesis, Grafting, and Polymerization in Aprotic and Protic Solvents. Macromolecules, 2009, 42, 4539-4546.	4.8	9
18	Magneto-Responsive Organogels Prepared Through Surface-Initiated Atom Transfer Radical Polymerization on Iron Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 123-131.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Synthesis, Self-Assembling Properties, and Atom Transfer Radical Polymerization of an Alkylated Phenylalanine-Derived Monomeric Organogel from Silica: A New Approach To Prepare Packing Materials for High-Performance Liquid Chromatography. <i>Chemistry - A European Journal</i> , 2008, 14, 1312-1321.	3.3	53
20	Molecular shape recognition-structure correlation in a phenylalanine-based polymer-silica composite by surface-initiated atom transfer radical polymerization. <i>Polymer</i> , 2008, 49, 5410-5416.	3.8	15
21	A novel approach to magneto-responsive polymeric gels assisted by iron nanoparticles as nano cross-linkers. <i>Chemical Communications</i> , 2008, , 2124.	4.1	54
22	A New Route for Preparation of High-density Organic Phase to High Selective HPLC for Polycyclic Aromatic Hydrocarbons by Atom-transfer Radical Polymerization of Octadecyl Acrylate on Silica. <i>Chemistry Letters</i> , 2007, 36, 1460-1461.	1.3	15
23	Kinetics and mechanism of the oxygenation of potassium nitronates. Evidence for a single electron transfer (SET) mechanism. <i>Reaction Kinetics and Catalysis Letters</i> , 2006, 88, 193-202.	0.6	3
24	Copper-catalyzed oxygenation of 3-hydroxy-2-phenylquinolin-4(1H)-one: Synthesis, structure and spectral properties of [Cu(idpa)(N-baa)]ClO ₄ , [idpa=3,3'-iminobis(N,N-dimethylpropylamine), N-baaH=N-benzoylanthranilic acid]. <i>Inorganic Chemistry Communication</i> , 2005, 8, 813-816.	3.9	3
25	Facile copper-mediated activation of the N-H bond and the oxidative cleavage of the C2-C3 bond in 1H-2-phenyl-3-hydroxy-4-oxoquinoline. <i>Chemical Communications</i> , 2004, , 1004-1005.	4.1	8
26	The base-catalyzed oxygenation of quinoline derivatives. <i>Tetrahedron Letters</i> , 2002, 43, 5961-5963.	1.4	13