

Christian Adlhart

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,667
citations

236925

25
h-index

206112

48
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55
all docs

55
docs citations

55
times ranked

2896
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism and Activity of Ruthenium Olefin Metathesis Catalysts: The Role of Ligands and Substrates from a Theoretical Perspective. <i>Journal of the American Chemical Society</i> , 2004, 126, 3496-3510.	13.7	272
2	Mechanistic Studies of Olefin Metathesis by Ruthenium Carbene Complexes Using Electrospray Ionization Tandem Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2000, 122, 8204-8214.	13.7	252
3	Surface modifications for antimicrobial effects in the healthcare setting: a critical overview. <i>Journal of Hospital Infection</i> , 2018, 99, 239-249.	2.9	225
4	The relationship between skin function, barrier properties, and body-dependent factors. <i>Skin Research and Technology</i> , 2018, 24, 165-174.	1.6	212
5	Olefin Metathesis of a Ruthenium Carbene Complex by Electrospray Ionization in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2685-2689.	13.8	166
6	Ligand Rotation Distinguishes First- and Second-Generation Ruthenium Metathesis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4484-4487.	13.8	119
7	Fishing for Catalysts: Mechanism-Based Probes for Active Species in Solution. <i>Helvetica Chimica Acta</i> , 2000, 83, 2192-2196.	1.6	104
8	Critical aspects of sample handling for direct nanoparticle analysis and analytical challenges using asymmetric field flow fractionation in a multi-detector approach. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1120.	3.0	92
9	Catalyst Screening by Electrospray Ionization Tandem Mass Spectrometry: Hofmann Carbenes for Olefin Metathesis. <i>Chemistry - A European Journal</i> , 2001, 7, 4621-4632.	3.3	82
10	Exploration of Ultralight Nanofiber Aerogels as Particle Filters: Capacity and Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9069-9076.	8.0	74
11	Comparing Grubbs-, Werner-, and Hofmann-Type (Carbene)ruthenium Complexes: The Key Role of Pre-Equilibria for Olefin Metathesis. <i>Helvetica Chimica Acta</i> , 2000, 83, 3306-3311.	1.6	72
12	Reactions of platinum clusters Pt_n^+ , $n = 1-21$, with CH_4 : to react or not to react. <i>Chemical Communications</i> , 2006, , 2581-2582.	4.1	70
13	Multiparameter toxicity assessment of novel DOPO-derived organophosphorus flame retardants. <i>Archives of Toxicology</i> , 2017, 91, 407-425.	4.2	63
14	Amphiphilic Nanofiber-Based Aerogels for Selective Liquid Absorption from Electrospun Biopolymers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700065.	3.7	60
15	Efficient dye adsorption by highly porous nanofiber aerogels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 547, 117-125.	4.7	56
16	Comparing Intrinsic Reactivities of the First- and Second-Generation Ruthenium Metathesis Catalysts in the Gas Phase. <i>Helvetica Chimica Acta</i> , 2003, 86, 941-949.	1.6	54
17	Mechanisms for the Dehydrogenation of Alkanes on Platinum: Insights Gained from the Reactivity of Gaseous Cluster Cations, Pt_{n+n}^+ , $n=1-21$. <i>Chemistry - A European Journal</i> , 2007, 13, 6883-6890.	3.3	50
18	C-H activation of alkanes on Rh_n^+ ($n=1-30$) clusters: Size effects on dehydrogenation. <i>Journal of Chemical Physics</i> , 2005, 123, 214709.	3.0	48

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19	<i>In vivo</i> confirmation of hydration-induced changes in human-skin thickness, roughness and interaction with the environment. <i>Biointerphases</i> , 2016, 11, 031015.	1.6	46
20	Membrane-particle interactions in an asymmetric flow field flow fractionation channel studied with titanium dioxide nanoparticles. <i>Journal of Chromatography A</i> , 2014, 1334, 92-100.	3.7	44
21	Tailoring Pore Structure of Ultralight Electrospun Sponges by Solid Templating. <i>ChemistrySelect</i> , 2016, 1, 5595-5598.	1.5	40
22	Unprecedented ROMP Activity of Low-Valent Rhenium-Nitrosyl Complexes: Mechanistic Evaluation of an Electrophilic Olefin Metathesis System. <i>Chemistry - A European Journal</i> , 2006, 12, 3325-3338.	3.3	35
23	Nanofiber immobilized CeO ₂ /dendrimer nanoparticles: An efficient photocatalyst in the visible and the UV. <i>Applied Surface Science</i> , 2019, 479, 608-618.	6.1	34
24	Surface enriched nanofiber mats for efficient adsorption of Cr(VI) inspired by nature. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102817.	6.7	27
25	From Short Electrospun Nanofibers to Ultralight Aerogels with Tunable Pore Structure. <i>Chimia</i> , 2017, 71, 236.	0.6	25
26	Die Rotation des Liganden unterscheidet die Ruthenium-Metathesekatalysatoren der ersten und zweiten Generation. <i>Angewandte Chemie</i> , 2002, 114, 4668-4671.	2.0	24
27	Merging flexibility with superinsulation: Machinable, nanofibrous pullulan-silica aerogel composites. <i>Materials and Design</i> , 2018, 160, 294-302.	7.0	23
28	A Chitosan Nanofiber Sponge for Oyster-Inspired Filtration of Microplastics. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4685-4694.	4.4	22
29	Dissociative recombination cross section and branching ratios of protonated dimethyl disulfide and N-methylacetamide. <i>Journal of Chemical Physics</i> , 2004, 121, 5700-5708.	3.0	21
30	Label free non-invasive imaging of topically applied actives in reconstructed human epidermis by confocal Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2013, 68, 29-33.	2.2	20
31	Skin Concentrations of Topically Applied Substances in Reconstructed Human Epidermis (RHE) Compared with Human Skin Using <i>in vivo</i> Confocal Raman Microscopy. <i>Chimia</i> , 2015, 69, 147.	0.6	20
32	Anti-microbial coating innovations to prevent infectious diseases (AMiCI): Cost action ca15114. <i>Bioengineered</i> , 2017, 8, 679-685.	3.2	20
33	Prediction of Steam Burns Severity using Raman Spectroscopy on <i>ex vivo</i> Porcine Skin. <i>Scientific Reports</i> , 2018, 8, 6946.	3.3	17
34	Surface distribution and depths profiling of particulate organic UV absorbers by Raman imaging and tape stripping. <i>International Journal of Cosmetic Science</i> , 2011, 33, 527-534.	2.6	14
35	Grafting of α -tocopherol upon γ -irradiation in UHMWPE probed by model hydrocarbons. <i>Polymer Degradation and Stability</i> , 2012, 97, 2255-2261.	5.8	14
36	3D PCL/Gelatin/Genipin Nanofiber Sponge as Scaffold for Regenerative Medicine. <i>Materials</i> , 2021, 14, 2006.	2.9	14

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37	Surfactant-free synthesis of sub-100 nm poly(styrene-co-divinylbenzene) nanoparticles by one-step ultrasonic assisted emulsification/polymerization. RSC Advances, 2015, 5, 103218-103228.	3.6	13
38	Membranes for Specific Adsorption: Immobilizing Molecularly Imprinted Polymer Microspheres using Electrospun Nanofibers. Chimia, 2011, 65, 182.	0.6	12
39	In Vitro Endothelialization of Surface-Integrated Nanofiber Networks for Stretchable Blood Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 5740-5751.	8.0	11
40	Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh _n ⁺ probed by isotope labelling. International Journal of Mass Spectrometry, 2006, 249-250, 191-198.	1.5	8
41	On the Gas-Phase Reactivity of Complexed OH ⁺ with Halogenated Alkanes. Chemistry - A European Journal, 2005, 11, 152-159.	3.3	7
42	Reaction dynamics simulations of the identity S _N 2 reaction H ₂ O + HOOH ₂ ⁺ → H ₂ OOH ⁺ + H ₂ O. Requirements for reaction and competition with proton transfer. Physical Chemistry Chemical Physics, 2006, 8, 1066.	2.8	7
43	C-H activation in reactions of protonated hydrogen peroxide with propane. International Journal of Mass Spectrometry, 2006, 254, 189-196.	1.5	2
44	Acrylonitrile and Pullulan Based Nanofiber Mats as Easily Accessible Scaffolds for 3D Skin Cell Models Containing Primary Cells. Cells, 2022, 11, 445.	4.1	2
45	Nanofiber-based Aerogels. Chimia, 2017, 71, 311-311.	0.6	1
46	Materials Science at Swiss Universities of Applied Sciences. Chimia, 2019, 73, 645.	0.6	1
47	Keeping SARS-CoV-2 out: Vaccines, Filters, and Self-disinfecting Textiles. Chimia, 2021, 75, 215-218.	0.6	1
48	A Novel Microfiber Wipe for Delivery of Active Substances to Human Skin: Clinical Proof of Concept. Polymers, 2020, 12, 2715.	4.5	0
49	What Happens to the Vitamin E in a Vitamin-Stabilised HXLPE?. , 2014, , 197-205.		0
50	Surface Chemistry at Swiss Universities of Applied Sciences. Chimia, 2014, 68, 560.	0.6	0
51	The Separation Power of Highly Porous 3D Nanofiber Sponges. Chimia, 2022, 76, 354.	0.6	0