

Jörg Eppinger

List of Publications by Year in descending order

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59
papers

3,023
citations

236925

25
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161849

54
g-index

68
all docs

68
docs citations

68
times ranked

3466
citing authors

#	ARTICLE	IF	CITATIONS
1	Formic Acid as a Hydrogen Energy Carrier. ACS Energy Letters, 2017, 2, 188-195.	17.4	596
2	Synthesis and structural characterisation of rare-earth bis(dimethylsilyl)amides and their surface organometallic chemistry on mesoporous MCM-41. Journal of the Chemical Society Dalton Transactions, 1998, , 847-858.	1.1	246
3	C2-Symmetricansa-Lanthanidocene Complexes. Synthesis via Silylamine Elimination and η^2 -SiH Agostic Rigidity. Journal of the American Chemical Society, 2000, 122, 3080-3096.	13.7	194
4	Molybdenum-Catalyzed Olefin Epoxidation: Ligand Effects. Chemistry - A European Journal, 1997, 3, 696-705.	3.3	181
5	η^2 -Si η^2 H Agostic Rigidity in a Solvent-Free Indenyl-Derivedansa-Yttrocene Silylamide. Organometallics, 1997, 16, 1813-1815.	2.3	121
6	Probing the reaction mechanism of IspH protein by x-ray structure analysis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1077-1081.	7.1	103
7	An efficient protocol for the palladium-catalysed Suzuki-Miyaura cross-coupling. Green Chemistry, 2011, 13, 169-177.	9.0	99
8	Evaluating Sandwich Immunoassays in Microarray Format in Terms of the Ambient Analyte Regime. Clinical Chemistry, 2004, 50, 1907-1920.	3.2	91
9	S-functionalized MXenes as electrode materials for Li-ion batteries. Applied Materials Today, 2016, 5, 19-24.	4.3	89
10	Biodegradable Magnetic Silica@Iron Oxide Nanovectors with Ultra-Large Mesopores for High Protein Loading, Magnetothermal Release, and Delivery. Journal of Controlled Release, 2017, 259, 187-194.	9.9	81
11	Structure of Active IspH Enzyme from <i>Escherichia coli</i> Provides Mechanistic Insights into Substrate Reduction. Angewandte Chemie - International Edition, 2009, 48, 5756-5759.	13.8	74
12	C2-Symmetric Ansa-Lanthanidocene Complexes. Theoretical Evidence for a Symmetric Ln $\cdot\cdot$ (SiH) η^2 -Diagostic Interaction. Journal of the American Chemical Society, 2000, 122, 11983-11994.	13.7	73
13	Facile palladium catalyzed Suzuki-Miyaura coupling in air and water at ambient temperature. Green Chemistry, 2010, 12, 35-38.	9.0	66
14	Biosynthesis of Isoprenoids: Crystal Structure of the [4Fe $\cdot\cdot$ 4S] Cluster Protein IspG. Journal of Molecular Biology, 2010, 404, 600-610.	4.2	65
15	The Lanthanide Ziegler-Natta Model: Aluminum-Mediated Chain Transfer. Organometallics, 2002, 21, 4021-4023.	2.3	60
16	Enzyme family-specific and activity-based screening of chemical libraries using enzyme microarrays. Nature Biotechnology, 2005, 23, 622-627.	17.5	58
17	Synthesis and characterization of alkali metal bis(dimethylsilyl) amides: infinite all-planar laddering in the unsolvated sodium derivative. Polyhedron, 1998, 17, 1195-1201.	2.2	48
18	Bioprospecting of Novel Extremozymes From Prokaryotes-The Advent of Culture-Independent Methods. Frontiers in Microbiology, 2021, 12, 630013.	3.5	45

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19	An efficient protocol for copper-free palladium-catalyzed Sonogashira cross-coupling in aqueous media at low temperatures. <i>Tetrahedron Letters</i> , 2011, 52, 6355-6358.	1.4	44
20	Ruthenium(II) pincer complexes with oxazoline arms for efficient transfer hydrogenation reactions. <i>Tetrahedron Letters</i> , 2012, 53, 4409-4412.	1.4	44
21	Enzyme Microarrays: On-Chip Determination of Inhibition Constants Based on Affinity-Label Detection of Enzymatic Activity. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3806-3810.	13.8	37
22	Poly(3-hydroxybutyrate) production in an integrated electromicrobial setup: Investigation under stress-inducing conditions. <i>PLoS ONE</i> , 2018, 13, e0196079.	2.5	37
23	Palladium N(CH ₂ CH ₂) ₂ -Dialkylamides: Synthesis, Structural Characterization, and Reactivity. <i>Inorganic Chemistry</i> , 2009, 48, 3699-3709.	4.0	31
24	Yttrium Calix[4]arene Complexes. Silylation and Silylamine Elimination Reactions on Model Oxo Surfaces. <i>Inorganic Chemistry</i> , 2000, 39, 4713-4720.	4.0	30
25	Understanding High-Salt and Cold Adaptation of a Polyextremophilic Enzyme. <i>Microorganisms</i> , 2020, 8, 1594.	3.6	30
26	Alkyl Complexes of Rare-Earth Metal Centers Supported by Chelating 1,1'-Diamidoferrocene Ligands: Synthesis, Structure, and Application in Methacrylate Polymerization. <i>Organometallics</i> , 2008, 27, 736-740.	2.3	28
27	Side chain functionalized 1,5-tetramethyl cyclopentadienyl complexes of Rh and Ir with a pendant primary amine group. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 1934-1937.	1.8	24
28	Engineering a Polyspecific Pyrrolysyl-tRNA Synthetase by a High Throughput FACS Screen. <i>Scientific Reports</i> , 2019, 9, 11971.	3.3	24
29	Metal-Conjugated Affinity Labels: A New Concept to Create Enantioselective Artificial Metalloenzymes. <i>ChemistryOpen</i> , 2013, 2, 50-54.	1.9	22
30	A two-stage biological gas to liquid transfer process to convert carbon dioxide into bioplastic. <i>Bioresource Technology Reports</i> , 2018, 1, 61-68.	2.7	22
31	1,6-Arene complexes of ruthenium and osmium with pendant donor functionalities. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2667-2672.	1.8	21
32	Production of halophilic proteins using <i>Haloferax volcanii</i> H1895 in a stirred-tank bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1183-1195.	3.6	21
33	³¹ P NMR assays for rapid determination of enantiomeric excess in catalytic hydrosilylations and transfer hydrogenations. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 362-367.	1.8	20
34	Identification and Experimental Characterization of an Extremophilic Brine Pool Alcohol Dehydrogenase from Single Amplified Genomes. <i>ACS Chemical Biology</i> , 2018, 13, 161-170.	3.4	19
35	The <i>Arabidopsis</i> Diacylglycerol Kinase 4 is involved in nitric oxide-dependent pollen tube guidance and fertilization. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	19
36	Inhibitor and Protein Microarrays for Activity-Based Recognition of Lipolytic Enzymes. <i>ChemBioChem</i> , 2006, 7, 527-534.	2.6	18

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37	Crystal Structure and Active Site Engineering of a Halophilic $\hat{3}$ -Carbonic Anhydrase. <i>Frontiers in Microbiology</i> , 2020, 11, 742.	3.5	16
38	Mining a database of single amplified genomes from Red Sea brine pool extremophiles – improving reliability of gene function prediction using a profile and pattern matching algorithm (PPMA). <i>Frontiers in Microbiology</i> , 2014, 5, 134.	3.5	15
39	A polyextremophilic alcohol dehydrogenase from the Atlantis II Deep Red Sea brine pool. <i>FEBS Open Bio</i> , 2019, 9, 194-205.	2.3	15
40	Atomic-Resolution Structures of Discrete Stages on the Reaction Coordinate of the [Fe ₄ S ₄] Enzyme IspG (GcpE). <i>Journal of Molecular Biology</i> , 2015, 427, 2220-2228.	4.2	14
41	Bedford-Type Palladacycle-Catalyzed Miyaura Borylation of Aryl Halides with Tetrahydroxydiboron in Water. <i>Journal of Organic Chemistry</i> , 2018, 83, 1842-1851.	3.2	14
42	Discovery of a Nitric Oxide-Responsive Protein in <i>Arabidopsis thaliana</i> . <i>Molecules</i> , 2019, 24, 2691.	3.8	14
43	Phenylalanine – a biogenic ligand with flexible $\hat{6}$ - and $\hat{6}$: $\hat{1}$ -coordination at ruthenium(ii) centres. <i>Dalton Transactions</i> , 2013, 42, 8692.	3.3	13
44	A <i>Saccharomyces cerevisiae</i> Assay System to Investigate Ligand/AdipoR1 Interactions That Lead to Cellular Signaling. <i>PLoS ONE</i> , 2013, 8, e65454.	2.5	12
45	Mechanistic insights into the reductive dehydroxylation pathway for the biosynthesis of isoprenoids promoted by the IspH enzyme. <i>Chemical Science</i> , 2015, 6, 5643-5651.	7.4	12
46	Water promoted allylic nucleophilic substitution reactions of (<i>cis</i>)-1,3 diphenylallyl acetate. <i>Green Chemistry</i> , 2018, 20, 425-430.	9.0	12
47	Robust and Versatile Host Protein for the Design and Evaluation of Artificial Metal Centers. <i>ACS Catalysis</i> , 2019, 9, 11371-11380.	11.2	12
48	cis-Tetrachlorido-bis(indazole)osmium(iv) and its osmium(iii) analogues: paving the way towards the cis-isomer of the ruthenium anticancer drugs KP1019 and/or NKP1339. <i>Dalton Transactions</i> , 2017, 46, 11925-11941.	3.3	11
49	Electronic and Magnetic Properties of Infinite 1D Chains of Paddlewheel Carboxylates $M_{24}(\text{COOR})_4$ (M = Mo, W, Ru, Rh, Ir, Cu). <i>Journal of Physical Chemistry C</i> , 2013, 117, 5462-5469.	3.1	10
50	Bioprospecting Archaea: Focus on Extreme Halophiles. <i>Topics in Biodiversity and Conservation</i> , 2017, , 81-112.	1.0	10
51	Synthetic strategies for efficient conjugation of organometallic complexes with pendant protein reactive markers. <i>Journal of Organometallic Chemistry</i> , 2013, 744, 82-91.	1.8	9
52	Aqueous protocol for allylic arylation of cinnamyl acetates with sodium tetraphenylborate using a Bedford-type palladacycle catalyst. <i>New Journal of Chemistry</i> , 2018, 42, 6210-6214.	2.8	9
53	Synthesis of substituted 1,1'-diaminoferrocenes from cyclo-2-pentene imines. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2223-2230.	1.8	5
54	Near-Infrared Intraoperative Chemiluminescence Imaging. <i>ChemMedChem</i> , 2016, 11, 1978-1982.	3.2	5

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55	Enzyme Microarrays: On-Chip Determination of Inhibition Constants Based on Affinity-Label Detection of Enzymatic Activity. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4389-4389.	13.8	2
56	Genetically Encoded Biotin Analogues: Incorporation and Application in Bacterial and Mammalian Cells. <i>ChemBioChem</i> , 2019, 20, 1795-1798.	2.6	1
57	First Sino-German Symposium: «Frontiers of Chemistry». <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 1142-1144.	0.0	0
58	Metal-Conjugated Affinity Labels: A New Concept to Create Enantioselective Artificial Metalloenzymes. <i>ChemistryOpen</i> , 2013, 2, 40-40.	1.9	0
59	A Novel Technique for Generating and Observing Chemiluminescence in a Biological Setting. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0