## Steven H Bergens

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1210754/publications.pdf

Version: 2024-02-01

186209 206029 2,380 58 28 48 citations h-index g-index papers 61 61 61 1918 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Industrial Synthesis of (+)-cis-Methyl Dihydrojasmonate by Enantioselective Catalytic Hydrogenation; Identification of the Precatalyst [Ru((â~')-Me-DuPHOS)(H)(Î-6-1,3,5-cyclooctatriene)](BF4). Angewandte Chemie - International Edition, 2000, 39, 1992-1995.	7.2	152
2	A Highly Active Catalyst for the Hydrogenation of Amides to Alcohols and Amines. Angewandte Chemie - International Edition, 2011, 50, 10377-10380.	7.2	132
3	An Unexpected Possible Role of Base in Asymmetric Catalytic Hydrogenations of Ketones. Synthesis and Characterization of Several Key Catalytic Intermediates. Journal of the American Chemical Society, 2006, 128, 13700-13701.	6.6	130
4	In Situ Observations of Water Production and Distribution in an Operating H2/O2 PEM Fuel Cell Assembly Using 1H NMR Microscopy. Journal of the American Chemical Society, 2004, 126, 11436-11437.	6.6	122
5	A Rutheniumâ`Dihydrogen Putative Intermediate in Ketone Hydrogenation. Journal of the American Chemical Society, 2005, 127, 4152-4153.	6.6	112
6	Facile Bifunctional Addition of Lactones and Esters at Low Temperatures. The First Intermediates in Lactone/Ester Hydrogenations. Organometallics, 2009, 28, 2349-2351.	1.1	105
7	Direct Observations of the Metalâ^Ligand Bifunctional Addition Step in an Enantioselective Ketone Hydrogenation. Journal of the American Chemical Society, 2008, 130, 11979-11987.	6.6	100
8	A direct 2-propanol polymer electrolyte fuel cell. Journal of Power Sources, 2003, 124, 12-17.	4.0	95
9	<i>Base-Catalyzed</i> Bifunctional Addition to Amides and Imides at Low Temperature. A New Pathway for Carbonyl Hydrogenation. Journal of the American Chemical Society, 2013, 135, 8578-8584.	6.6	72
10	Experimental Investigations of a Partial Ru–O Bond during the Metal–Ligand Bifunctional Addition in Noyori-Type Enantioselective Ketone Hydrogenation. Journal of the American Chemical Society, 2011, 133, 9666-9669.	6.6	71
11	The Use of 1H NMR Microscopy to Study Proton-Exchange Membrane Fuel Cells. ChemPhysChem, 2006, 7, 67-75.	1.0	69
12	[Ru((R)-2,2 -bis(diphenylphosphino)-1,1 -binaphthyl)(H)(MeCN)(THF)2](BF4), a Catalyst System for Hydrosilylation of Ketones and for Isomerization, Intramolecular Hydrosilylation, and Hydrogenation of Olefins. Organometallics, 1996, 15, 3782-3784.	1.1	64
13	Desymmetrization of <i>meso</i> -Cyclic Imides via Enantioselective Monohydrogenation. Journal of the American Chemical Society, 2010, 132, 12832-12834.	6.6	64
14	Insights into the Distribution of Water in a Self-Humidifying H2/O2Proton-Exchange Membrane Fuel Cell Using1H NMR Microscopy. Journal of the American Chemical Society, 2006, 128, 14192-14199.	6.6	61
15	The First Complete Identification of a Diastereomeric Catalystâ^'Substrate (Alkoxide) Species in an Enantioselective Ketone Hydrogenation. Mechanistic Investigations. Journal of the American Chemical Society, 2002, 124, 3680-3691.	6.6	55
16	The First Structure Determination of a Possible Intermediate in Ruthenium 2,2â€~Bis(diphenylphosphino)-1,1â€~-binaphthyl Catalyzed Hydrogenation with a Prochiral Group Bound to Ruthenium. Stoichiometric Reaction of a Chiral Rutheniumâ^'Carbon Bond with Dihydrogen Gas. Journal of the American Chemical Society, 1997, 119, 2940-2941.	6.6	51
17	Deposition of Ru Adatoms on Pt Using Organometallic Chemistry:Â Catalysts for Electrooxidation of MeOH and Adsorbed Carbon Monoxide. Journal of Physical Chemistry B, 1998, 102, 193-199.	1.2	47
18	Ptâ€"Ruadatom nanoparticles as anode catalysts for direct methanol fuel cells. Journal of Power Sources, 2004, 134, 170-180.	4.0	47

#	Article	IF	CITATIONS
19	The influence of membrane electrode assembly water content on the performance of a polymer electrolyte membrane fuel cell as investigated by 1H NMR microscopy. Physical Chemistry Chemical Physics, 2007, 9, 1850.	1.3	44
20	Use of hydrogen–deuterium exchange for contrast in 1H NMR microscopy investigations of an operating PEM fuel cell. Journal of Power Sources, 2007, 173, 86-95.	4.0	44
21	Electro-oxidation of 2-propanol on platinum in alkaline electrolytes. Journal of Power Sources, 2006, 161, 761-767.	4.0	42
22	Catalytic hydrogenation of functionalized amides under basic and neutral conditions. Catalysis Science and Technology, 2015, 5, 1181-1186.	2.1	41
23	Highly Enantioselective Hydrogenation of Amides via Dynamic Kinetic Resolution Under Low Pressure and Room Temperature. Journal of the American Chemical Society, 2017, 139, 3065-3071.	6.6	40
24	The First Structure Determination of a Diastereomeric Hydridoâ 'Olefin Putative Intermediate in Catalytic Enantioselective Hydrogenation. Organometallics, 1999, 18, 3709-3714.	1,1	39
25	In situ quantification of the in-plane water content in the Nafion $\hat{A}^{@}$ membrane of an operating polymer-electrolyte membrane fuel cell using 1H micro-magnetic resonance imaging experiments. Journal of Power Sources, 2010, 195, 7316-7322.	4.0	37
26	Mechanistic Investigations of an Enantioselective Hydrogenation Catalyzed by a Rutheniumâ^BINAP Complex. 1. Stoichiometric and Catalytic Labeling Studies. Organometallics, 1998, 17, 2228-2240.	1.1	35
27	A liquid electrolyte alkaline direct 2-propanol fuel cell. Journal of Power Sources, 2010, 195, 7196-7201.	4.0	32
28	Hydrogenation of Ru $(1,5$ -cyclooctadiene $)(\hat{l}\cdot3$ -C3H5 $)2$ over Black Platinum. A Low-Temperature Reactive Deposition of Submonolayer Quantities of Ruthenium Atoms on Platinum with Real Time Control over Surface Stoichiometry. Journal of the American Chemical Society, 1997, 119, 3543-3549.	6.6	28
29	A nonelectrochemical reductive deposition of ruthenium adatoms onto nanoparticle platinum: anode catalysts for a series of direct methanol fuel cells. Electrochimica Acta, 2003, 48, 4021-4031.	2.6	27
30	A ruthenium catalyst that does not require an N–H ligand to achieve high enantioselectivity for hydrogenation of an alkyl-aryl ketone. Chemical Communications, 2003, , 750-751.	2.2	27
31	Electro-oxidation of 2-propanol and acetone over platinum, platinum–ruthenium, and ruthenium nanoparticles in alkaline electrolytes. Journal of Power Sources, 2008, 185, 222-225.	4.0	27
32	Active, Simple Iridium–Copper Hydrous Oxide Electrocatalysts for Water Oxidation. Journal of Physical Chemistry C, 2017, 121, 5480-5486.	1.5	27
33	A Reusable Polymeric Asymmetric Hydrogenation Catalyst Made by Ring-Opening Olefin Metathesis Polymerization. Organometallics, 2004, 23, 1484-1486.	1.1	26
34	A Highly Reusable Rhodium Catalyst-Organic Framework for the Intramolecular Cycloisomerization of 1,6-Enynes. Organic Letters, 2011, 13, 3522-3525.	2.4	25
35	Simple Aqueous Preparation of High Activity and Stability NiFe Hydrous Oxide Catalysts for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2017, 5, 1106-1112.	3.2	24
36	Surface-Directed Deposition of Platinum Nanostructures on Graphite by Chemical Vapor Deposition. Langmuir, 2000, 16, 5837-5840.	1.6	19

#	Article	IF	CITATIONS
37	Deposition of Ru Adatoms on Pt Using Organometallic Chemistry: Electroâ€oxidation of Methanol, Ethanol, 1,2â€Ethanediol, and Dâ€Glucose over a Surface Optimized for Oxidation of Methanol. Journal of the Electrochemical Society, 1998, 145, 4182-4185.	1.3	18
38	A Highly Reusable Catalyst for Enantioselective Ketone Hydrogenation. Catalystâ^'Organic Frameworks by Alternating ROMP Assembly. Organometallics, 2007, 26, 1571-1574.	1.1	16
39	Solvent-free isomerization of allylic alcohols catalyzed by a rhodium catalyst-organic framework. RSC Advances, 2012, 2, 3473.	1.7	15
40	Modular Construction of Photoanodes with Covalently Bonded Ru- and Ir-Polypyridyl Visible Light Chromophores. ACS Applied Materials & Interfaces, 2018, 10, 24533-24542.	4.0	15
41	An Alternate Route to the Active Chiral Hydrogenation Catalysts [Ru(bisphosphine)(H)(solvent)3]+:Â Synthesis, Characterization, and Catalytic Evaluation. Organometallics, 2004, 23, 4564-4568.	1.1	14
42	Substrate effects on the mechanism of enantioselective hydrogenation using ruthenium bis(phosphine) complexes as catalyst: A mechanistic investigation of the hydrogenation of α,β-unsaturated acids and esters based on deuterium labeling studies. Inorganica Chimica Acta, 2006, 359, 2760-2770.	1.2	14
43	Application of [Ru((R)-BINAP)(MeCN)(1-3:5,6-ÎC8H11)](BF4) as a catalyst precursor for enantioselective hydrogenations. Canadian Journal of Chemistry, 1998, 76, 1447-1456.	0.6	13
44	Low Pt-loading Ni–Pt and Pt deposits on Ni: Preparation, activity and investigation of electronic properties. Journal of Power Sources, 2011, 196, 7470-7480.	4.0	13
45	An organometallic deposition of ruthenium adatoms on platinum that self poisons at a specific surface composition Journal of Electroanalytical Chemistry, 2002, 533, 91-100.	1.9	12
46	Carbazole–Cyanobenzene Dyes Electrografted to Carbon or Indium-Doped Tin Oxide Supports for Visible Light-Driven Photoanodes and Olefin Isomerizations. ACS Applied Materials & mp; Interfaces, 2021, 13, 17745-17752.	4.0	12
47	An unexpected, self-regulating codeposition of nickel and platinum forming deposits with surfaces enriched in platinum. Journal of Power Sources, 2009, 194, 298-302.	4.0	10
48	Structural and activity comparison of self-limiting versus traditional Pt electro-depositions on nanopillar Ni films. Journal of Power Sources, 2013, 222, 533-541.	4.0	10
49	(R)- and (S)-1,3-Bis(diphenylphosphino)-2- ((diphenylphosphino)methyl)-1-phenylpropane ((R)- and) Tj ETQq1 1  That Is Restrained to One Helical Conformation upon Coordination to a Rhodium(I) Metal Center.  Organometallics. 1997, 16, 1890-1896.	0.784314 1.1	rgBT /Overloo
50	Enantioselective Hydrogenations of Esters with Dynamic Kinetic Resolution. ACS Catalysis, 2019, 9, 6111-6117.	5.5	9
51	Glancing angle deposited Ni nanopillars coated with conformal, thin layers of Pt by a novel electrodeposition: Application to the oxygen reduction reaction. Electrochimica Acta, 2015, 151, 537-543.	2.6	4
52	Solid-phase synthesis and photoactivity of Ru-polypyridyl visible light chromophores bonded through carbon to semiconductor surfaces. Dalton Transactions, 2020, 49, 10173-10184.	1.6	4
53	Stereochemistry at carbon upon protonolysis of a late transition metal-alkyl bond: a reaction of relevance to catalytic enantioselective hydrogenation of olefins. Canadian Journal of Chemistry, 2001, 79, 1019-1025.	0.6	3
54	Preparation and Study of Reusable Polymerized Catalysts for Ester Hydrogenation. ACS Omega, 2019, 4, 12212-12221.	1.6	3

#	Article	IF	CITATION
55	Second Order Dependence on the Surface Fraction of Pt in Ptâ€"Ru <sub>adatom</sub> of the Oxidation of 2-PrOH in Base. Journal of Physical Chemistry C, 2015, 119, 27212-27219.	1.5	2
56	Oxygen reduction over dealloyed Pt layers on glancing angle deposited Ni nanostructures. Electrochimica Acta, 2015, 176, 620-626.	2.6	2
57	A Fortuitous, Mild Catalytic Carbon–Carbon Bond Hydrogenolysis by a Phosphine-Free Catalyst. Australian Journal of Chemistry, 2016, 69, 561.	0.5	2
58	Polycationic Rh–JosiPhos Polymers Supported on Phosphotungstic Acid/Al <sub>2</sub> O <sub>3</sub> by Multiple Electrostatic Attractions. ACS Catalysis, 2022, 12, 2034-2044.	<b>5.</b> 5	2