

Mark J Fink

List of Publications by Year in descending order

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67
papers

1,771
citations

304743

22
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

1565
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytotoxicity of surface-functionalized silicon and germanium nanoparticles: the dominant role of surface charges. <i>Nanoscale</i> , 2013, 5, 4870.	5.6	161
2	X-ray crystal structures for two disilenes. <i>Organometallics</i> , 1984, 3, 793-800.	2.3	149
3	Chemical reactions of tetramesityldisilene. <i>Journal of the American Chemical Society</i> , 1983, 105, 1070-1071.	13.7	104
4	Reaction of disilanes with a cis-platinum dihydride: novel platinum complexes with terminal disilanyl groups and bridging disilene ligands. <i>Journal of the American Chemical Society</i> , 1992, 114, 7955-7957.	13.7	95
5	Tetramesitylcyclodisiloxane: a cyclic siloxane with an unusual structure. <i>Journal of the American Chemical Society</i> , 1984, 106, 822-823.	13.7	89
6	Stable bis(silyl)palladium complexes: synthesis, structure, and bis-silylation of acetylenes. <i>Organometallics</i> , 1992, 11, 3495-3497.	2.3	89
7	A Dicoordinate Palladium(0) Complex with an Unusual Intramolecular η^1 -Arene Coordination. <i>Journal of the American Chemical Society</i> , 2003, 125, 7816-7817.	13.7	89
8	Structural and chemical properties of 1,3-cyclodisiloxanes. <i>Organometallics</i> , 1986, 5, 531-538.	2.3	75
9	Synthesis, structure, and unusual reactivity of a d10-d10 palladium(0) dimer. <i>Journal of the American Chemical Society</i> , 1993, 115, 3842-3843.	13.7	62
10	The thermal isomerization of a silacyclobutadiene to a cyclopropenylsilylene: evidence for a stable silylene in fluid solution. <i>Journal of the American Chemical Society</i> , 1989, 111, 5951-5952.	13.7	52
11	The X-ray crystal structure of tetramesityldisilene. <i>Journal of the Chemical Society Chemical Communications</i> , 1983, , 1010.	2.0	49
12	Facile Reductive Elimination of Ethane from Strained Dimethylpalladium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 4081-4082.	13.7	47
13	The First Stable Mononuclear Silyl Palladium Hydrides. <i>Journal of the American Chemical Society</i> , 2003, 125, 3228-3229.	13.7	46
14	Silacyclobutadienes: generation of 1-mesityl-2,3,4-tri-tert-butyl-1-silacyclobutadiene. <i>Journal of the American Chemical Society</i> , 1988, 110, 1315-1316.	13.7	42
15	Phenyl transfer from silicon to platinum via the ortho metalation of a phenylsilyl ligand. <i>Organometallics</i> , 1991, 10, 1219-1221.	2.3	39
16	Ab initio calculations on some C ₃ SiH ₄ isomers. <i>Organometallics</i> , 1987, 6, 1977-1984.	2.3	38
17	Silicon nanoparticles with chemically tailored surfaces. <i>Applied Organometallic Chemistry</i> , 2010, 24, 236-240.	3.5	36
18	Electronic structure of the silicon-silicon double bond. Silicon-29 shielding anisotropy in tetramesityldisilene. <i>Organometallics</i> , 1983, 2, 193-194.	2.3	29

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19	The rate of ring closure of 1,1-dimethyl-2-phenyl-1-silabuta-1,3-diene to 1,1-dimethyl-2-phenyl-1-silacyclobutene. <i>Organometallics</i> , 1989, 8, 571-573.	2.3	27
20	Synthetic, structural, and dynamic NMR studies of (bisphosphine)palladium(0) complexes of dibenzylideneacetone. <i>Journal of Organometallic Chemistry</i> , 2000, 616, 10-18.	1.8	27
21	Synthesis and solid-state structures of some sterically hindered cyclopropenylsilanes. <i>Organometallics</i> , 1989, 8, 770-777.	2.3	23
22	Dynamic Processes in Silyl Palladium Complexes: Evidence for Intermediate Si ^δ -H and Si ^δ -Si σ -Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9054-9055.	13.7	23
23	Photochemical generation of cyclopropenylsilylenes. <i>Organometallics</i> , 1987, 6, 1809-1811.	2.3	22
24	Polysilyl complexes of platinum - synthesis and thermochemistry. <i>Organometallics</i> , 1989, 8, 1369-1371.	2.3	22
25	Reductive Routes to Dinuclear d ¹⁰ d ¹⁰ Palladium(0) Complexes and Their Redistribution Equilibria in Solution. <i>Organometallics</i> , 2001, 20, 2959-2961.	2.3	21
26	Synthesis of 1,2-bis[(diorgano)phosphino]ethanes via Michaelis-Arbuzov type rearrangements. <i>Journal of Organometallic Chemistry</i> , 2002, 646, 230-238.	1.8	21
27	Persistent triplet diradicals from the dimerization of silacyclobutadienes. <i>Journal of the American Chemical Society</i> , 1991, 113, 5461-5462.	13.7	17
28	Dicoordinate Copper(I) Silanechalcogenolates. <i>Inorganic Chemistry</i> , 2006, 45, 8844-8846.	4.0	17
29	Preparation and Isolation of Dithiolene Thiophosphoryl Molecules as Stable, Protected Forms of Dithiolene Ligands. <i>Inorganic Chemistry</i> , 2007, 46, 3283-3288.	4.0	17
30	Catalyzed self-aldol reaction of valeraldehyde via a mechanochemical method. <i>Journal of Molecular Catalysis A</i> , 2009, 304, 117-120.	4.8	16
31	Mechanochemical synthesis of functionalized silicon nanoparticles with terminal chlorine groups. <i>Journal of Materials Research</i> , 2011, 26, 1052-1060.	2.6	16
32	Mild Two-Step Method to Construct DNA-Conjugated Silicon Nanoparticles: Scaffolds for the Detection of MicroRNA-21. <i>Bioconjugate Chemistry</i> , 2014, 25, 1739-1743.	3.6	16
33	Molecular Beam Photochemistry of Organopolysilanes and Organopolygermanes. <i>Organometallics</i> , 2000, 19, 139-146.	2.3	15
34	Synthesis of a tert-butyl substituted bis(silane) and comparison with its methyl and phenyl analogs. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1957-1963.	1.8	12
35	Dicoordinate copper(I) chalcogenides Structure and bonding. <i>Inorganica Chimica Acta</i> , 2007, 360, 3511-3517.	2.4	11
36	The unusual dimerization of 1-mesityl-2,3,4-tri-t-butyl-1-silacyclobutadiene: a solid state structure. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 706.	2.0	10

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37	Silylated gallium-sulfur ring systems as single source precursors to hexagonal gallium sulfide (GaS). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 116, 375-379.	3.5	9
38	Tetra- $\frac{1}{4}$ -iodo-tetrakis[(tri-tert-butylphosphine)copper(I)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, m1550-m1552.	0.2	9
39	Tuning the Palladium-Silicon Bond: Bond Analysis of Bisphosphine Silyl Palladium Hydrides. <i>Organometallics</i> , 2006, 25, 1945-1952.	2.3	9
40	Water-soluble PEGylated silicon nanoparticles and their assembly into swellable nanoparticle aggregates. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	9
41	Silicon nanoparticles synthesised through reactive high-energy ball milling: enhancement of optical properties from the removal of iron impurities. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1214-1222.	2.4	9
42	Spectroscopy of jet-cooled phenylsilanes: The influence of hyperconjugation. <i>Chemical Physics Letters</i> , 1989, 158, 351-355.	2.6	8
43	Wetting properties of silicon films from alkyl-passivated particles produced by mechanochemical synthesis. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 634-641.	9.4	8
44	Photolysis of some organosilylene precursors in a molecular beam. <i>Journal of Organometallic Chemistry</i> , 1995, 499, 1-5.	1.8	7
45	Laser Ablation of Hexamesitylcyclotrigermane and Hexamesitylcyclosiladigermane in a Molecular Beam. <i>Organometallics</i> , 2002, 21, 2438-2443.	2.3	7
46	Functionalized silicon nanoparticles from reactive cavitation erosion of silicon wafers. <i>Chemical Communications</i> , 2015, 51, 1465-1468.	4.1	7
47	Cleavage of Bis(thiophosphinyl)disulfanes, R ₂ P(S)SSP(S)R ₂ (R = Et, Ph), by a Low-Valent Palladium Dimer. <i>Inorganic Chemistry</i> , 1995, 34, 6141-6144.	4.0	6
48	Decomposition Cascades of Dicoordinate Copper(I) Chalcogenides. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5294-5299.	2.0	6
49	Structure of 1-tris(trimethylsilyl)silyl-3,4,5,6-tetrakis(trimethylsilyl)cyclohex-1-ene. <i>Journal of Chemical Crystallography</i> , 1994, 24, 293-299.	1.1	5
50	Synthesis and solid state structures of tri- <i>t</i> -butyl-cyclopropenyl derivatives of main group elements: Cyp*MP ₃ (M=Si, Ge, Sn). <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1419-1424.	1.8	5
51	Synthesis, photochemical decomposition and DFT studies of 2,2,3,3-tetramethyl-1,1-bis(dimethylphenylsilyl)silacyclopropane. <i>Journal of Organometallic Chemistry</i> , 2015, 791, 163-168.	1.8	5
52	Williamson ether synthesis: an efficient one-step route for surface modifications of silicon nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 588-598.	2.4	5
53	Laser ablation of ring-strained precursor molecules: selective product fragment generation. <i>Chemical Physics Letters</i> , 2003, 379, 60-66.	2.6	4
54	cis-Dichloro(N,N,N',N'-tetramethyl-1,2-diaminoethane)palladium(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m40-m41.	0.2	4

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55	Tetrakis($\frac{1}{4}$ -triisopropylsilanethiolato)-1:2 P^{S} ;2:3 P^{S} -bis(triisopropylsilanethiolato)platinum(II)-acetonitrile solvate. Acta Crystallographica Section C: Crystal Structure Communications, 2009, 65, m475-m477.	0.4	1
56	Solid state structure of oxalato-(bis(dicyclohexylphosphino)-ethane) platinum(II)-acetonitrile solvate. Journal of Chemical Crystallography, 1994, 24, 193-195.	1.1	3
57	Monoclinic form of 1,2,4,5-tetracyclohexylbenzene. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o375-o375.	0.2	3
58	Novel Reactivity of a Dinuclear d ¹⁰ -d ¹⁰ Palladium Complex. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 93, 393-394.	1.6	2
59	<i>cis</i> -Dichlorido[bis(dicyclohexylphosphino)methane] P^2 palladium(II) dichloromethane solvate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m3083-m3083.	0.2	2
60	Triclinic form of 1,2,4,5-tetracyclohexylbenzene. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o376-o376.	0.2	2
61	1-Bromo-2,4,6-tricyclohexylbenzene. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o335-o335.	0.2	2
62	Molecular beam study of possible CVD intermediates from Group-14 organometallic precursors. Chemical Physics Letters, 2000, 318, 448-453.	2.6	1
63	Bis(triphenylsilyl)selenide. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2687-o2688.	0.2	1
64	Silylated gallium and indium chalcogenide ring systems as potential precursors to ME (E=O, S) materials. Open Chemistry, 2013, 11, 1225-1238.	1.9	1
65	Crystal structures of three sterically congested disilanes. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 448-452.	0.5	1
66	GAS PHASE PHOTOLYTIC PRODUCTION OF Si ₂ N FROM AZIDOTRIMETHYLSILANE. Main Group Metal Chemistry, 2000, 23, .	1.6	0
67	$\frac{1}{4}$ -1,2-Bis(dicyclohexylphosphino)ethane P^2 -bis{[1,2-bis(dicyclohexylphosphino)ethane] P^2 }[palladium(0)]. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m625-m627.	0.2	0