Ashwani Vij

List of Publications by Year in descending order

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94	3,597	30	58
papers	citations	h-index	g-index
103	103	103	2869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonporous Organic Solids Capable of Dynamically Resolving Mixtures of Diiodoperfluoroalkanes. Science, 2009, 323, $1461-1464$. Experimental Detection of the Pentaazacyclopentadienide (Pentazolate) Anion, cyclo-N5 $ ilde{A}$ \hat{A}	12.6	259
2	was funded predominantly by the Defense Advanced Research Projects Agency, with additional support from the Air Force Office of Scientific Research and the National Science Foundation. The mass spectrometer instrumentation at UCSB was supported under the Army Research Office Award no. DAAD19-00-1-0026. We thank Dr. Robert Corley, Dr. Arthur Morrish, Dr. Don Woodbury, Dr. Michael	13.8	251
3	Berman, and Prof. W. Kaska for. Angewandte Chemie - International Edition, 2002, 41, 3051. Polynitrogen Chemistry. Synthesis, Characterization, and Crystal Structure of Surprisingly Stable Fluoroantimonate Salts of N5+. Journal of the American Chemical Society, 2001, 123, 6308-6313.	13.7	245
4	Enthalpies of Formation of Gas-Phase N3, N3-, N5+, and N5-from Ab Initio Molecular Orbital Theory, Stability Predictions for N5+N3-and N5+N5-, and Experimental Evidence for the Instability of N5+N3 Journal of the American Chemical Society, 2004, 126, 834-843.	13.7	196
5	Energetic, Low-Melting Salts of Simple Heterocycles. Propellants, Explosives, Pyrotechnics, 2003, 28, 174-180.	1.6	192
6	Fluorinated Polyhedral Oligomeric Silsesquioxanes (Fâ€POSS). Angewandte Chemie - International Edition, 2008, 47, 4137-4140.	13.8	179
7	Novel Core-Modified Expanded Porphyrins withmeso-Aryl Substituents:Â Synthesis, Spectral and Structural Characterization. Journal of the American Chemical Society, 1999, 121, 9053-9068.	13.7	120
8	First Structural Characterization of Binary AsIII and SbIII Azides. Chemistry - A European Journal, 2004, 10, 508-517.	3.3	92
9	Polyazide Chemistry: Preparation and Characterization of Te(N3)4 and [P(C6H5)4]2 [Te(N3)6] and Evidence for [N(CH3)4] [Te(N3)5]. Angewandte Chemie - International Edition, 2003, 42, 5847-5851.	13.8	91
10	Sapphyrin Supramolecules through Câ^'Hâ‹â‹â‹S and Câ^'Hâ‹â‹â‹Se Hydrogen Bonds—First Structural Characterization ofmeso- Arylsapphyrins Bearing Heteroatoms. Angewandte Chemie - International Edition, 1998, 37, 3394-3397.	 13.8	88
11	Polyazide Chemistry: Preparation and Characterization of As(N3)5, Sb(N3)5, and [P(C6H5)4][Sb(N3)6]. Angewandte Chemie - International Edition, 2004, 43, 6676-6680.	13.8	79
12	Rangoli with Tin Drums:  Câ^'H- - -O Bond-Assisted Supramolecular Grids Involving Organostannoxan Clusters. Organometallics, 2002, 21, 3297-3300.	¹⁶ 2.3	77
13	Electrophilic Addition and Substitution Reactions of Bis((trifluoromethyl)sulfonyl)amide and Its N-Chloro Derivative. Inorganic Chemistry, 1994, 33, 3281-3288.	4.0	7 5
14	Polynitrogen Chemistry: Preparation and Characterization of (N5)2SnF6, N5SnF5, and N5B(CF3)4. Chemistry - A European Journal, 2003, 9, 2840-2844.	3.3	73
15	Facile synthesis of hydrophobic fluoroalkyl functionalized silsesquioxane nanostructures. Chemical Communications, 2007, , 4992. Experimental Detection of the Pentaazacyclopentadienide (Pentazolate) Anion, cyclo-N5âÂ^Â' This work	4.1	72
16	was funded predominantly by the Defense Advanced Research Projects Agency, with additional support from the Air Force Office of Scientific Research and the National Science Foundation. The mass spectrometer instrumentation at UCSB was supported under the Army Research Office Award no. DAAD19-00-1-0026. We thank Dr. Robert Corley, Dr. Arthur Morrish, Dr. Don Woodbury, Dr. Michael	2.0	67
17	Berman, and Prof. W. Kaska for. Angewandte Chemie, 2002, 114, 3177. Solid state synthesis under supramolecular control of a 2D heterotetratopic self-complementary tecton tailored to halogen bonding. New Journal of Chemistry, 2006, 30, 1397.	2.8	65
18	Experimental and Theoretical Study of 1,5-Diamino-4-H-1,2,3,4-Tetrazolium Perchlorate. Propellants, Explosives, Pyrotechnics, 2005, 30, 156-163.	1.6	55

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19	Structural Characterization of POSS Siloxane Dimer and Trimer. Chemistry of Materials, 2006, 18, 1490-1497.	6.7	51
20	Synthesis and Characterization of Dimeric, Trimeric, and Tetrameric Gallophosphonates and Gallophosphates⊥. Inorganic Chemistry, 1998, 37, 3734-3746.	4.0	50
21	Trimethylsilyl bis(fluorosulfonyl)imide: A new catalyst for the reactions of acetals with silyl nucleophiles. Tetrahedron Letters, 1993, 34, 7335-7338.	1.4	47
22	Stable Borate-Bridged ansa-Zirconocene Complexes. Preparation and X-ray Crystallographic Characterization of [Cp*2Al]+[Me(Ph)B(η5-C5H4)2ZrCl2]- and [PPN]+[Cl(Ph)B(η5-C5H4)2ZrCl2] Organometallics, 1999, 18, 5432-5434.	2.3	43
23	A Novel Synthesis of Hexakis(trifluoromethyl)cyclotriphosphazene. Single-Crystal X-ray Structures of N3P3(CF3)6and N3P3F6. Inorganic Chemistry, 2000, 39, 375-377.	4.0	37
24	Synthesis of Polyfluoro Aromatic Ethers: A Facile Route Using Polyfluoroalkoxides Generated from Carbonyl and Trimethysilyl Compounds. Inorganic Chemistry, 1995, 34, 6085-6092.	4.0	35
25	Formation of a Novel Phenyldiphosphonic Acid Anion Dimer through Metal Assisted Hydrolysis of the Pâ^'N Bond. Inorganic Chemistry, 2001, 40, 6057-6060.	4.0	34
26	Liquid Azide Salts. Inorganic Chemistry, 2008, 47, 3617-3624.	4.0	33
27	Fluoride Ion Induced Reactions of Siliconâ^'Oxygen and Siliconâ^'Sulfur Bonds with Hexafluorocyclotriphosphazenes: Synthesis, Reactivity, and X-ray Structural Analyses of Sulfur/Oxygen-Containing Monospirofluorophosphazenes⊥,â€. Inorganic Chemistry, 1996, 35, 2915-2929.	4.0	30
28	Synthesis of Cyclic Ethers with Fluorinated Side Chains. Inorganic Chemistry, 1996, 35, 1590-1601.	4.0	28
29	Reductive Coupling of an Indenylidene with Calcium To Form Bis(indenyl) ansa-Metallocenes: Molecular Structures of trans-Ph2C2H2-rac-(Î-5-4,7-Me2C9H4)2Ca(THF)2 and trans-Ph2C2H2-rac-(Î-5-4,7-Me2C9H4)2Fe. Organometallics, 1999, 18, 3468-3473.	2.3	28
30	The double insertion of t-butyl isocyanide by tris(tetramethylcyclopentadienyl) aluminum to form. Polyhedron, 1995, 14, 203-209.	2.2	27
31	Some fluorine-containing nitrogen acids and their derivatives. Coordination Chemistry Reviews, 1997, 158, 413-432, Dinitrogen Diffluoride Chemistry. Improved Syntheses of <i>cis</i>	18.8	27
32	and <i>trans</i> -N ₂ F ₂ , Synthesis and Characterization of N ₂ F ₉ ^{â^'} , Ordered Crystal Structure of N ₂ F _{F_{F₁₁^{â^'}, High-Level Electronic Structure Calculations}}	4.0	27
33	of <i>cis</i> -N ₂ F ₂ , F ₂ Nâ•• Synthesis and Reactions offac-Re(bpy)(CO)3(CH2OR) (R = H, Acetyl; bpy = 2,2â€⁻-Bipyridyl). Organometallics, 1998, 17, 2689-2691.	2.3	26
34	Acac-Promoted Rearrangement of an Alkylaluminophosphonate Tetramer to a Decamer. Organometallics, 2001, 20, 4833-4839.	2.3	26
35	Structure of the SO2F-Anion, a Problem Case1. Inorganic Chemistry, 2001, 40, 1303-1311.	4.0	23
36	On the Existence of FN5, a Theoretical and Experimental Study. Journal of Physical Chemistry A, 2003, 107, 6638-6647.	2.5	23

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37	Bis(permethylcyclopentadienyl)aluminum Compounds:Â Precursors to [Cp*2Al]+but Not to Cp*3Al. Organometallics, 2000, 19, 3361-3367.	2.3	22
38	Solid State and Solution Behavior of Triorganotin(IV) Derivatives Containing the 2,4,6-Tris(trifluoromethyl)benzene and 1,4-Bis(perfluoroisopropoxy)tetrafluorobenzene Ligands: Crystal and Molecular Structures of 2,4,6-(CF3)3C6H2Sn(C6H5)3 and 1,4-[(CH3)3SnOC(CF3)2]2C6F4. Inorganic Chemistry, 1994, 33, 5456-5462.	4.0	21
39	Hexakis(trifluoromethyl)tetrazane. Angewandte Chemie International Edition in English, 1995, 34, 586-588.	4.4	21
40	Calcium-Mediated Fulvene Couplings. 2. Survey of 6-Aryl- and 6-Alkylfulvenes for Their rac Selectivity in the Synthesis of ansa-Calcocenes. Organometallics, 2002, 21, 182-191.	2.3	21
41	Structures of the BrF4+and IF4+Cations. Inorganic Chemistry, 2002, 41, 6397-6403.	4.0	21
42	Weak intermolecular interactions and molecular aggregation in isostructural dihaloperfluoroethanes,. CrystEngComm, 2009, 11, 1073.	2.6	21
43	Selective Reactivity of the Phosphorusâ^'Chlorine and Carbonâ^'Chlorine Bonds in Cyclic Chlorocarbaphosphazenes: An Unusual Activation of a Carbonâ^'Nitrogen Bond in Trialkylaminesâ€. Inorganic Chemistry, 1997, 36, 2730-2745.	4.0	19
44	Phenylarsonates of Aluminum and Gallium:  Synthesis and Structural Characterization of [tBuAl(μ3-O3AsPh)]4 and [tBu2Ga(μ2-O2AsPh)]2O. Inorganic Chemistry, 1997, 36, 6476-6478.	4.0	19
45	Theoretical Study and X-ray Structure Determination of Dimethyldihydropyrene. Journal of Organic Chemistry, 1998, 63, 3125-3127.	3.2	19
46	Ring opening of bicyclic tertiary amines with cyclic chlorocarbaphosphazenes: reactions of (ClCN)2(Cl2PN) with 1,4-diazabicyclo[2.2.2]octane and quinuclidine â€. Journal of the Chemical Society Dalton Transactions, 1999, , 1515.	1.1	18
47	Title is missing!. Journal of Chemical Crystallography, 2003, 33, 245-251.	1.1	18
48	Synthesis of Poly- and the First Perfluoroalkyl-N(SO2F)2Derivatives: Improved Methods for the Preparation of XN(SO2F)2(X = H, Cl) and Single-Crystal Diffraction Studies of HN(SO2Cl)2, HN(SO2F)2, and CF3CH2N(SO2F)2â€. Inorganic Chemistry, 1998, 37, 6295-6303.	4.0	17
49	Halogenâ∢oxygen aggregation and disorder modes in pressure frozen XCF2CF2X : 1,4-dioxane (X = Br,I) complexes. CrystEngComm, 2009, 11, 1240.	2.6	17
50	Crystal Structure of F2NO+AsF6-and Method for Extracting Meaningful Geometries from Oxygen/Fluorine Disordered Crystal Structures. Inorganic Chemistry, 2001, 40, 416-417.	4.0	16
51	Interpenetrated structure and compressibility studies in pressure frozen pentafluoropyridine crystals at 0.3 and 1.1GPa. Journal of Fluorine Chemistry, 2008, 129, 173-177.	1.7	15
52	Studies on the Reactivity of Tetrafluoro- and Pentafluorophenyl Trimethylsilyl Ether with Pentafluorobenzenes. Chemistry and X-ray Structural Investigations of Polyfluorodiphenyl Ethersâ€. Inorganic Chemistry, 1997, 36, 366-381.	4.0	14
53	(IR)-4-Amino-1,2,4-triazolium Salts: New Families of Ionic Liquids. ACS Symposium Series, 2005, , 259-302.	0.5	14
54	N-Dealkylation of Aliphatic Tertiary Amines and Diamines with Cyanuric Chloride: Crystal Structure of 2,4-Dichloro-6-(N-ethyl-N-isopropylamino)-s-triazine. Journal of Chemical Research Synopses, 1998, , 504-505.	0.3	13

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55	Synthesis and Characterization of the SO2N3-, (SO2)2N3-, and SO3N3- Anions. Inorganic Chemistry, 2002, 41, 4275-4285.	4.0	13
56	Triphenylmethyldifluoramine: a stable reagent for the synthesis of gem-bis(difluoramines). Chemical Communications, 2002, , 1712-1713.	4.1	13
57	Dealkylation Reactions of Trialkylamines with 1,3,5-Trichloro-1,2,4,6-cyclothiatriazine: A Novel Route to Regiospecific Dialkylamino Substitution on Cyclocarbathiazinesâ€. Inorganic Chemistry, 1999, 38, 3022-3026.	4.0	12
58	Synthesis and reactions of the ferrocene derived hydroxymethyl phosphine FcCH(CH 3)P(CH 2 OH) 2 and its sulfide: crystal structures of [FcCH(CH 3)P(S)R 2] R=CH 2 OH, CH 2 CH 2 CN and FcCH(CH 3) Tj ETQq0	0 0. .sgBT /	Ovezlock 10
59	Novel ferrocene derived cyclocarbaphosphazenes: synthesis and structure of spiro {Fe(ÎC5H5)-[ÎC5H4CH2P(S)(CH2O)2PN]}(Me2NCN)2. Inorganic Chemistry Communication, 2000, 3, 29-31.	3.9	12
60	Methyl Tin(IV) Derivatives of HOTeF5 and HN(SO2CF3)2:  A Solution Multinuclear NMR Study and the X-ray Crystal Structures of (CH3)2SnCl(OTeF5) and [(CH3)3Sn(H2O)2][N(SO2CF3)2]. Inorganic Chemistry, 2004, 43, 3189-3199.	4.0	12
61	Sulfonation of Perfluorovinylamines: Synthesis of the First Examples of Nitrogen-Substituted .betaFluorosultones. Inorganic Chemistry, 1994, 33, 628-629.	4.0	11
62	Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, (ClCN)2(Cl2PN). Journal of Organometallic Chemistry, 1999, 580, 41-47.	1.8	11
63	High-pressure freezing, crystal structure studies and SiCF3 bond polarizability of trimethyl(trifluoromethyl)silane. Journal of Fluorine Chemistry, 2008, 129, 1090-1095.	1.7	11
64	Syntheses and multinuclear NMR studies of some trialkyltin(IV) bis(fluorosulfonyl)imides. Journal of Fluorine Chemistry, 1992, 58, 43-51.	1.7	10
65	Pyramidalized olefins: The stereospecific conjugate reduction of a bicyclo[2.2.2]octadiene. Tetrahedron Letters, 1999, 40, 2689-2690.	1.4	10
66	Tritylsulfinylamine: a new member in the family of sulfinylamines. Solid State Sciences, 2002, 4, 1529-1534.	3.2	10
67	Perfluorovinylamines: reactions of the perfluorovinyl group with nucleophiles and electrophiles. Inorganic Chemistry, 1993, 32, 5011-5020.	4.0	9
68	Hexakis(trifluormethyl)tetrazan. Angewandte Chemie, 1995, 107, 645-647.	2.0	9
69	Dichlorobis(1,2-phenylenediamine)nickel(II). Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, e454-e454.	0.4	9
70	Synthesis, characterization, and single crystal X-ray diffraction studies of cis-Ph2C2H2(Î-5-C5H4)2Ca(THF)2. Journal of Chemical Crystallography, 1998, 28, 731-734.	1.1	8
71	Synthesis of 4-fluororesorcinol and 4-trifluoromethylresorcinol. Heteroatom Chemistry, 1998, 9, 229-239.	0.7	8
72	fac-Re(bpy)(CO)3(COOMe): A model metallocarboxylate complex of rhenium with a bipyridyl ligand. Journal of Chemical Crystallography, 1999, 29, 619-622.	1.1	8

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73	Title is missing!. Journal of Chemical Crystallography, 2000, 30, 405-410.	1.1	8
74	Title is missing!. Journal of Chemical Crystallography, 2000, 30, 399-404.	1.1	8
75	In Pursuit of the PO2+ Cation. The Reaction of KPO2F2 and SbF5 leads to an Eight-membered Antimony-Oxygen-Phosphorus-bridged Ring. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 631-637.	1.2	8
76	Synthesis and X-ray crystal structure of PhC(CF3)(OH)CONEt2, and CH3C(CF3)(OH)CON[CH2CH(CH3)2]2. Journal of Fluorine Chemistry, 1999, 98, 127-132.	1.7	6
77	Reactions of 4-Substituted 1,1-Dimethylsemicarbazides and -thiosemicarbazides with Ethyl Bromoacetate. Journal of Organic Chemistry, 1995, 60, 1464-1465.	3.2	5
78	Preparation and Characterization of the Argentates: \hat{A} [Ag{P(CF3)2}2]-, [Ag{(\hat{I} /4-P(CF3)2)M(CO)5}2]-(M = Cr,) 1 Inorganic Chemistry, 2004, 43, 1659-1666.	Гј ETQq0 (4.0	0 0 rgBT /Overl 5
79	The structure-based design of novel AMPA bioisosteres. Journal of Chemical Crystallography, 1999, 29, 749-758.	1.1	4
80	Fluoroâ€nitrogen Cations. Angewandte Chemie - International Edition, 2022, 61, .	13.8	4
81	ansa-Calcocenes:trans-Ph2(CH3)2C2(η5-C5H4)2Ca(DME). Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m402-m403.	0.2	3
82	Perfluorovinyl Morpholine and Perfluorovinyl Pyrrolidine with Nucleophiles and Electrophiles. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1995, 621, 1865-1874.	1.2	2
83	Ethyl 5-methyl-4-(2,5,5-trimethyl-1,3-dioxan-2-yl)isoxazole-3-carboxylate. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 1146-1147.	0.4	2
84	Title is missing!. Journal of Chemical Crystallography, 2000, 30, 621-626.	1.1	2
85	p-Toluenesulfonyl esters of perfluorinated tertiary alcohols: crystal structure determination of the absolute configuration of C6F5(CF3)2COSO2C6H4CH3. Journal of Fluorine Chemistry, 1998, 89, 19-22.	1.7	1
86	Synthesis and Characterization of Derivatives of a Hydroxymethyl Ruthenium Complex. Organometallics, 2000, 19, 4179-4182.	2.3	1
87	Solid state and solution behavior of triorganotin(IV) derivatives containing the 2,4,6-tris(trifluoromethyl)benzene and 1,4-bis(perfluoroisopropoxy)tetrafluorobenzene ligands: crystal and molecular structures of 2,4,6-(CF3)3C6H2Sn(C6H5)3 and 1,4-[(CH3)3SnOC(CF3)2]2C6F4. [Erratum to document cited in CA122:10143]. Inorganic Chemistry, 1995, 34, 4516-4516.	4.0	0
88	Honoring Karl O. Christe, on the occasion of his 65th birthday. Journal of Fluorine Chemistry, 2001, 112, 163-164.	1.7	0
89	Calcium-Mediated Fulvene Couplings. 2. Survey of 6-Aryl- and 6-Alkylfulvenes for TheirracSelectivity in the Synthesis of ansa-Calcocenes. Organometallics, 2002, 21, 2020-2020.	2.3	0
90	Structures of the BrF4+ and IF4+ Cations ChemInform, 2003, 34, no.	0.0	0

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91	Polyazide Chemistry: Preparation and Characterization of Te(N3)4 and [P(C6H5)4]2 [Te(N3)6] and Evidence for [N(CH3)4][Te(N3)5] ChemInform, 2004, 35, no.	0.0	O
92	Enthalpies of Formation of Gas-Phase N3, N-3, N+5, and N-5 from ab initio Molecular Orbital Theory, Stability Predictions for N+5N-3 and N+5N-5, and Experimental Evidence for the Instability of N+5N-3 ChemInform, 2004, 35, no.	0.0	0
93	Polyazide Chemistry: Preparation and Characterization of As(N3)5, Sb(N3)5, and [P(C6H5)4][Sb(N3)6] ChemInform, 2005, 36, no.	0.0	0
94	Fluoroâ€nitrogen Cations. Angewandte Chemie, 2022, 134, .	2.0	0