Felipe Garcia

List of Publications by Year
in descending order

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98 papers	3,232 citations	186209 28 h-index	175177 52 g-index
125 all docs	125 docs citations	125 times ranked	3002 citing authors

#	Article	IF	Citations
1	Effective Visible Light-Activated B-Doped and B,N-Codoped TiO₂ Photocatalysts. Journal of the American Chemical Society, 2007, 129, 13790-13791.	6.6	554
2	Main group mechanochemistry: from curiosity to established protocols. Chemical Society Reviews, 2019, 48, 2274-2292.	18.7	361
3	The First Synthesis of the Sterically Encumbered Adamantoid Phosphazane P₄(N^tBu)₆: Enabled by Mechanochemistry. Angewandte Chemie - International Edition, 2016, 55, 12736-12740.	7.2	98
4	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. IScience, 2019, 16, 312-325.	1.9	80
5	Efficient visible light-active N-doped TiO2photocatalysts by a reproducible and controllable synthetic route. Chemical Communications, 2006, , 4236-4238.	2.2	74
6	Mixed Alkylamido Aluminate as a Kinetically Controlled Base. Journal of the American Chemical Society, 2008, 130, 16193-16200.	6.6	74
7	Templating and Selection in the Formation of Macrocycles Containing [{P(Î¼-NtBu)2}(Î¼-NH)]n Frameworks: Observation of Halide Ion Coordination. Chemistry - A European Journal, 2002, 8, 3377.	1.7	72
8	Upscaling Mechanochemistry: Challenges and Opportunities for Sustainable Industry. Trends in Chemistry, 2021, 3, 335-339.	4.4	70
9	Main group mechanochemistry. Beilstein Journal of Organic Chemistry, 2017, 13, 2068-2077.	1.3	57
10	Mechanochemical Rearrangements. Journal of Organic Chemistry, 2021, 86, 13885-13894.	1.7	57
11	Selection of a Pentameric Host in the Host-Guest Complexes {[{[P(Î¼-NtBu)]2(Î¼-NH)}5]â‹…I}â^'[Li(thf)4]+and [{[P(Î¼-NtBu)]2(Î¼-NH)}5]â‹…HBrâ‹…THF. Chemistry - A European Journal, 2004, 10, 6066-6072.	1.7	55
12	An Unexpected Pathway in the Cage Opening and Aggregation of P4. Angewandte Chemie - International Edition, 2007, 46, 3084-3086.	7.2	55
13	Mechanochemical Synthesis of Corannuleneâ€Based Curved Nanographenes. Angewandte Chemie - International Edition, 2020, 59, 21620-21626.	7.2	53
14	A multi-step solvent-free mechanochemical route to indium(<scp>iii</scp>) complexes. Dalton Transactions, 2016, 45, 7941-7946.	1.6	46
15	Unique Triphenylphosphonium Derivatives for Enhanced Mitochondrial Uptake and Photodynamic Therapy. Bioconjugate Chemistry, 2017, 28, 590-599.	1.8	46
16	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (<	1.2	44
17	Multigram Mechanochemical synthesis of a Salophen Complex: A Comparative Analysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 1152-1160.	3.2	42
18	Switching between halogen- and hydrogen-bonding in stoichiometric variations of a cocrystal of a phosphine oxide. CrystEngComm, 2012, 14, 6110.	1.3	41

#	Article	IF	Citations
19	Highly selective epoxidation of styrene using a transition metalâ€“aluminium(iii) complex containing the [MeAl(2-py)3]â^'anion (2-py = 2-pyridyl). Chemical Communications, 2005, , 198-200.	2.2	39
20	The formation of dimeric phosph(iii)azane macrocycles [{P(Âμ-NtBu)}2Â·LL]2[LL = organic spacer]. Dalton Transactions, 2004, , 2904.	1.6	36
21	Synthesis of the [MeAl(2-py)3]-Anion and Its Application as a Stable and Mild Pyridyl-Transfer Reagent (2-py = 2-Pyridyl). Organometallics, 2004, 23, 3884-3890.	1.1	34
22	Robust Cobalt Catalyst for Nitrile/Alkyne [2+2+2] Cycloaddition: Synthesis of Polyarylpyridines and Their Mechanochemical Cyclodehydrogenation to Nitrogenâ€Containing Polyaromatics**. Angewandte Chemie - International Edition, 2021, 60, 9627-9634.	7.2	34
23	Synthesis and structure of the calixarene-like phosph(iii)azane macrocycle [{P(Âμ-NtBu)}2{1,5-(NH)2C10H6}]3. Chemical Communications, 2005, , 3733.	2.2	33
24	Encapsulation of hydride by molecular main group metal clusters: manipulating the source and coordination sphere of the interstitial ion. Dalton Transactions, 2006, , 5574-5582.	1.6	32
25	Syntheses and Structure of Heterometallic Complexes Containing Tripodal Group 13 Ligands [RE(2-py)3]-(E = Al, In)â€. Organometallics, 2006, 25, 2561-2568.	1.1	32
26	Suppressing the Anionic Fries Rearrangement of Aryl Dialkylcarbamates; the Isolation of a Crystalline orthoâ€Deprotonated Carbamate. European Journal of Organic Chemistry, 2008, 2008, 644-647.	1.2	32
27	Exo-metal coordination by a tricyclic [{P(Âμ-N-2-NC5H4)}2(Âμ-O)]2dimer in Communications, 2003, , 2990-2991.	2.2	30
28	The First Synthesis of the Sterically Encumbered Adamantoid Phosphazane P₄(N^tBu)₆: Enabled by Mechanochemistry. Angewandte Chemie, 2016, 128, 12928-12932.	1.6	30
29	Selection of the cis and trans phosph(iii)azane macrocycles [{P(Âμ-NtBu)}2(1-Y-2-NH-C6H4)]2(Y = O, S). Dalton Transactions, 2005, , 1764.	1.6	29
30	Synthesis and the Optical and Electrochemical Properties of Indium(III) Bis(arylimino)acenaphthene Complexes. Inorganic Chemistry, 2017, 56, 7811-7820.	1.9	29
31	Trapping of Oligomeric Cyclopentadienyllithium Cationic and Anionic Fragments by a Vï£½V-Bonded Ligand. Angewandte Chemie - International Edition, 2007, 46, 5425-5427.	7.2	27
32	The folded, tetrameric phosph(iii)azane macrocycle [{P(Âμ-NtBu)}2{1,4-(NH)2C6H4}]4. Chemical Communications, 2005, , 5041.	2.2	26
33	Formation and Structure of the [(1,2â€₆H₄P₂Sb)₂]^{4â^'} Ion: Implications for an Extended Family of Isoelectronic Mainâ€Group Radicals. Angewandte Chemie - International Edition, 2007, 46, 7827-7830.	7.2	26
34	Mechanochemical Synthesis of Phosphazaneâ€Based Frameworks. Chemistry - A European Journal, 2017, 23, 11279-11285.	1.7	26
35	Suggestion of a â€œTwistâ€•Mechanism in the Oligomerisation of a Dimeric Phospha(III)zane: Insights into the Selection of Adamantoid and Macrocyclic Alternatives. Chemistry - A European Journal, 2002, 8, 5723-5731.	1.7	25
36	Targeting large phosp(iii)azane macrocyles [{P(Î¼-NR)}2(LL)]n(n â‰¥ 2). Dalton Transactions, 2006, , 4235-4243.	1.6	25

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37	Direct synthesis of the 1,2,3-[Cî€6H4Pîƒ±Pîƒ±Pî€']â^' anion, isoelectronic with the indenyl anion [Cî€6H4CHîƒ±CHîƒ±Cî€'H]â^' Chemical Communications, 2008, , 859.	2.2	25
38	Synthesis and Hydrolytic Studies on the Air-Stable [(4-CN-PhO)(E)P(Î¼-N^tBu)]₂ (E = O, S, and Se) Cyclodiphosphazanes. Inorganic Chemistry, 2015, 54, 6423-6432.	1.9	25
39	Ansa-tris(allyl) complexes of alkali metals: tripodal analogues of cyclopentadienyl and ansa-metallocene ligands. Chemical Communications, 2007, , 5081.	2.2	24
40	Orthogonality in main group compounds: a direct one-step synthesis of air- and moisture-stable cyclophosphazanes by mechanochemistry. Chemical Communications, 2018, 54, 6800-6803.	2.2	23
41	Steric control in the oligomerisation of phosphazane dimers; towards new phosphorusâ€"nitrogen macrocycles. Dalton Transactions, 2004, , 807-812.	1.6	22
42	The first example of a Si-bridged tris(pyridyl) ligand; synthesis and structure of [MeSi(2-C5H4N)3LiX] (X) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	22
43	Mechanosynthesis of Higherâ€Order Cocrystals: Tuning Order, Functionality and Size in Cocrystal Design**. Angewandte Chemie - International Edition, 2021, 60, 17481-17490.	7.2	22
44	The first complex of the pentameric phosphazane macrocycle [{P(Î¼-NtBu)}2(Î¼-NH)]5 with a neutral molecular guest: Synthesis and structure of [{P(Î¼-NtBu)}2(Î¼-NH)]5(CH2Cl2)2. Inorganic Chemistry Communication, 2005, 8, 1060-1062.	1.8	21
45	Reactions of Sn(NMe2)2with Alkali-MetaltertButylphosphidestBuPHM (M = Li, Na, K):Â Evidence for Metal-Induced Modification of the Tin(II) Phosphinidene Anions. Organometallics, 2006, 25, 3275-3281.	1.1	21
46	Inverse Coordination of an Ionic Lattice by a Metal Host. Angewandte Chemie - International Edition, 2005, 44, 5729-5733.	7.2	20
47	Adventures in Tin(II) phosphinidene chemistry; insights into the mechanism of Pâ€"P and Snâ€"Sn bond formation. Journal of Organometallic Chemistry, 2006, 691, 1673-1680.	0.8	20
48	Mechanochemical transformation of planar polyarenes to curved fused-ring systems. Nature Communications, 2021, 12, 5187.	5.8	20
49	Thermodynamic/Kinetic Control in the Isomerization of the[{tBuNP(Î¼-NtBu)}2]2â^' Ion. Chemistry - A European Journal, 2004, 10, 2271-2276.	1.7	18
50	The cationic cluster Grignard [{MgCl(thf)2}3(Î¼3-C3H5)2]+. Chemical Communications, 2006, , 2039-2041.	2.2	18
51	Stepwise nucleophilic substitution of manganocene, syntheses and structures of the dimer [CpMn(hpp)]2and the unusual manganate cage [LiMn(hpp)3]2(hppH =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 177 Td (1,3,4,	1.6	18
52	Synthesis, structural studies and ligand influence on the stability of aryl-NHC stabilised trimethylaluminium complexes. Dalton Transactions, 2015, 44, 15166-15174.	1.6	18
53	Quadruple Deprotonation of 2-Aminophenylphosphane with a p-Block-Metal/Alkali-Metal Base. Angewandte Chemie - International Edition, 2005, 44, 3456-3459.	7.2	17
54	Metal Complexes in Mechanochemistry. , 2021, , 620-679.		17

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55	Steric Câ€“N bond activation on the dimeric macrocycle [{P(Î¼-NR)}₂(Î¼-NR)]₂. Chemical Communications, 2015, 51, 16468-16471.	2.2	15
56	Aryl-NHC-group 13 trimethyl complexes: structural, stability and bonding insights. Dalton Transactions, 2017, 46, 854-864.	1.6	15
57	Site-selective aromatic Câ€“H Î»³-iodanation with a cyclic iodine(<scp>iii</scp>) electrophile in solution and solid phases. Chemical Science, 2020, 11, 7356-7361.	3.7	15
58	Reactions of Sn(NMe2)2with Primary Aryl Phosphides, ArPH-:Â Synthesis and Structures of the Heteroleptic Cages [{(PhPâ^'PPh)Sn(Î¼-PPh)}2(NaÂ·PMDETA)4and [{Sn(Î¼3-Ppy)}3{Sn(Î¼3,Î¼1-pyPâ^'Ppy)}3]. Organometallics, 2005, 24, 1813-1818.	1.1	14
59	Pyridyl â€˜ring-flippingâ€™ in the dimers [Me2E(2-py)]2(E = B, Al, Ga; 2-py = 2-pyridyl). Chemical Communications, 2007, , 586-588.	2.2	14
60	Reactions of Sn(NMe2)2 with MPHCy: The Effects of Alkali Metal Phosphide Coupling (Cy=Cyclohexyl;) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	14
61	Bay-Region Functionalisation of Ar-BIAN Ligands and Their Use Within Highly Absorptive Cationic Iridium(III) Dyes. Scientific Reports, 2017, 7, 15520.	1.6	14
62	Enabling Mitochondrial Uptake of Lipophilic Dications Using Methylated Triphenylphosphonium Moieties. Inorganic Chemistry, 2019, 58, 8293-8299.	1.9	14
63	Mechanochemical Synthesis of Corannuleneâ€Based Curved Nanographenes. Angewandte Chemie, 2020, 132, 21804-21810.	1.6	14
64	Synthesis, properties, and catalysis of p-block complexes supported by bis(arylimino)acenaphthene ligands. Communications Chemistry, 2020, 3, .	2.0	14
65	Synthesis and structure of [{Sb(Âµ-NCy)}2(Âµ-N)]3(LiÂ·THF)3(LiNî€NH), containing a macrocyclic [{Sb(Âµ-NCy)}2N]33â€“ trianion. Dalton Transactions RSC, 2002, , 481-483.	2.3	13
66	Formation and decomposition of the Sb(III)/Li cage [{Sb(P-t-Bu)3}2Li6Â·6THF]. Canadian Journal of Chemistry, 2002, 80, 1421-1427.	0.6	13
67	Triphosph(iii)azanes to diphosph(iii)azanes; a cracking transformation. Dalton Transactions, 2005, , 2495.	1.6	13
68	Structural, Solid-State NMR and Theoretical Studies of the Inverse-Coordination of Lithium Chloride Using Group 13 Phosphide Hosts. Chemistry - A European Journal, 2007, 13, 1251-1260.	1.7	13
69	Rhenium carbonyl complexes bearing methylated triphenylphosphonium cations as antibody-free mitochondria trackers for X-ray fluorescence imaging. Inorganic Chemistry Frontiers, 2021, 8, 3905-3915.	3.0	13
70	Reactions of metallated cyclohexyl phosphine (CyPHM) with As(NMe2)3; synthesis of [(CyP)4As]â€“ anions (M = Li or Na, Cy = cyclohexyl). Dalton Transactions, 2003, , 1143-1147.	1.6	11
71	Selective formation of the [PhP(H)â€“PPh]â^'anion in the reaction of PhPHLi with MeAlCl2; synthesis and structure of the unusual tetramer [{PhP(H)â€“PPh}LiÂ·thf]4. Dalton Transactions, 2004, , 977-979.	1.6	10
72	Synthesis and structure of the Li13 cage [{[Oî*f*±P(Î¼-NtBu)]2Li2}3(LiCl)6Li(Cl/OnBu)0.5(thf)7], containing a [Oî*f*±P(Î¼-NtBu)]22â^' dianion. Chemical Communications, 2008, , 2251.	2.2	10

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73	cis-Cyclodiphosph(<scp>v</scp>/<scp>v</scp>)azanes as highly stable and robust main group supramolecular building blocks. CrystEngComm, 2018, 20, 5998-6004.	1.3	10
74	Efficient synthesis of brominated tetrathiafulvalene (TTF) derivatives: solid-state structure and electrochemical behaviour. Tetrahedron, 2006, 62, 8152-8157.	1.0	9
75	Synthesis of Unique Phosphazane Macrocycles via Steric Activation of Câ€“N Bonds. Inorganic Chemistry, 2018, 57, 10993-11004.	1.9	9
76	A one-pot synthesis to [(Me3Si)3SiSb]4; a potential precursor for Sb42â^'. Dalton Transactions, 2004, , 2051-2052.	1.6	8
77	Alkyl vs. aryl modifications: a comparative study on modular modifications of triphenylphosphonium mitochondrial vectors. RSC Chemical Biology, 2021, 2, 1643-1650.	2.0	8
78	Primary amido and phosphido complexes of zinc: potential precursors to heterometallic arrangements. Inorganica Chimica Acta, 2003, 354, 41-48.	1.2	7
79	Synthesis and Structure of [{Sn2(Î¼-PMes)3}K2Â·3THF]âˆž, Exhibiting Multifunctional Coordination of [Sn2(Î¼-PMes)3]2-Anions to K+. Organometallics, 2004, 23, 4821-4823.	1.1	7
80	Ï€-Bonding versus oligomerisation in the aromatic anions [C6H4N2E]â^': formation of the cyclic tetrameric tetraanion [C6H4N2Sb]44â^'. Dalton Transactions, 2008, , 997-999.	1.6	7
81	Nâ€Bridged Acyclic Trimeric Polyâ€Cyclodiphosphazanes: Highly Tuneable Cyclodiphosphazane Building Blocks. Angewandte Chemie - International Edition, 2020, 59, 22100-22108.	7.2	7
82	Syntheses and structures of the cubanes [PhOSb(Âµ3-NCy)]4and [pyOBi(Âµ3-NCy)]4(Cy = cyclohexyl, py =) Tj ETQq0 0 0 rgBT /Overloc	2.3	6
83	Reductive-elimination of phosphide units; the basis of a general approach to a range of alloys and materials. Journal of Materials Chemistry, 2004, 14, 3093-3100.	6.7	6
84	Confinement of halide ions within homologous inverse coordination hosts; modification of halide-ion selectivity. Chemical Communications, 2011, 47, 1821-1823.	2.2	6
85	Size-control in the synthesis of oxo-bridged phosphazane macrocycles via a modular addition approach. Communications Chemistry, 2021, 4, .	2.0	6
86	Mechanochemical Synthesis of Tripodal Tris[4-(1,2,3-triazol-5-ylidene)methyl]amine Mesoionic Carbene Ligands and Their Complexation with Silver(I). Inorganic Chemistry, 2021, 60, 3556-3564.	1.9	6
87	Synthesis and structure of [{MeAl(Î¼-PMes)(PMes)}2Li4]2Â·7thf, containing a [MeAl(Î¼-PMes)(PMes)]24â^'tetraanion (Mes = 2,4,6-Me3C6H2). Chemical Communications, 2003, , 2052-2053.	2.2	4
88	Robust Cobalt Catalyst for Nitrile/Alkyne [2+2+2] Cycloaddition: Synthesis of Polyarylpyridines and Their Mechanochemical Cyclodehydrogenation to Nitrogenâ€Containing Polyaromatics**. Angewandte Chemie, 2021, 133, 9713-9720.	1.6	4
89	Single- and double-bridged PNP ligands in chromium-catalysed ethylene oligomerisation. Catalysis Science and Technology, 2022, 12, 4544-4551.	2.1	4
90	Synthesis of a deca-lithium cage containing an [(RN)2As(Âµ-NR)As(NR)2]4â€“ tetraanion; a homologue of group 15 trianions of the type [E(NR)3]3â€“Electronic supplementary information (ESI) available: synthesis and spectroscopic details for 1 and 2. See http://www.rsc.org/suppdata/cc/b2/b202858a/. Chemical Communications, 2002, , 1276-1277.	2.2	3

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91	Syntheses and structures of the heterometallic complexes [{MeIn(Î¼-PCy)}2(Î¼-PCy)]2(LiÂ·Et2O)4, [Me2In(PhMes)2]â^'[Li(TMEDA)2]+ and [Me2(PHMes)2In]â^'[K(PMDETA)2]+ [Cy=cyclohexyl, Mes=2,4,6-Me3C6H2, TMEDA=(Me2NCH2)2, PMDETA=(Me2NCH2CH2)2NMe]. Inorganica Chimica Acta, 2007, 360, 1266-1273.	1.2	3
92	Syntheses and structures of [Me2Si{As(PtBu)3}2] and [(CyP)3SiMe2] (Cy=cyclohexyl, C6H11). Journal of Organometallic Chemistry, 2010, 695, 1069-1073.	0.8	3
93	Pre-arranged building block approach for the orthogonal synthesis of an unfolded tetrameric organicâ€“inorganic phosphazane macrocycle. Communications Chemistry, 2022, 5, .	2.0	3
94	Nâ€Bridged Acyclic Trimeric Polyâ€Cyclodiphosphazanes: Highly Tuneable Cyclodiphosphazane Building Blocks. Angewandte Chemie, 2020, 132, 22284-22292.	1.6	2
95	Mechanosynthesis of Higherâ€Order Cocrystals: Tuning Order, Functionality and Size in Cocrystal Design**. Angewandte Chemie, 2021, 133, 17622-17631.	1.6	2
96	Reductive Elimination of Phosphide Units: The Basis of a General Approach to a Range of Alloys and Materials. ChemInform, 2005, 36, no.	0.1	0
97	Group 2 (Beâ€“Ba) and Group 12 (Znâ€“Hg). Organometallic Chemistry, 0, , 92-110.	0.6	0
98	Investigating the solid-state assembly of pharmaceutically-relevant N,N-dimethyl-O-thiocarbamates in the absence of labile hydrogen bonds. CrystEngComm, 2020, 22, 8290-8298.	1.3	0