

Ian A Tonks

List of Publications by Year in descending order

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51
papers

1,441
citations

304743

22
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330143

37
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docs citations

59
times ranked

1296
citing authors

#	ARTICLE	IF	CITATIONS
1	Î±-Diimine synthesis <i>via</i> titanium-mediated multicomponent diimination of alkynes with C-nitrosos. <i>Chemical Science</i> , 2022, 13, 1469-1477.	7.4	11
2	Ruthenium hydrides encapsulated in sol-gel glasses exhibit new ultrafast vibrational dynamics. <i>Journal of Chemical Physics</i> , 2022, 156, 124502.	3.0	1
3	A Dual Catalyst Strategy for Controlling Aluminum Nanocrystal Growth. <i>Nano Letters</i> , 2022, 22, 5570-5574.	9.1	4
4	Tunable and recyclable polyesters from CO ₂ and butadiene. <i>Nature Chemistry</i> , 2022, 14, 877-883.	13.6	38
5	Learning Experience Reports Improve Academic Research Safety. <i>Journal of Chemical Education</i> , 2021, 98, 150-157.	2.3	12
6	Multicomponent syntheses of 5- and 6-membered aromatic heterocycles using group 4-8 transition metal catalysts. <i>Chemical Science</i> , 2021, 12, 9574-9590.	7.4	18
7	Development and applications of selective hydroesterification reactions. <i>Trends in Chemistry</i> , 2021, 3, 469-484.	8.5	25
8	Ti-Catalyzed and -Mediated Oxidative Amination Reactions. <i>Accounts of Chemical Research</i> , 2021, 54, 3476-3490.	15.6	19
9	Electronic structure analysis and reactivity of the bimetallic bis-titanocene vinylcarboxylate complex, [(Cp ₂ Ti) ₂ (O ₂ C ₃ TMS ₂)]. <i>Polyhedron</i> , 2021, 207, 115368.	2.2	4
10	Resources for Improving Safety Culture, Training, and Awareness in the Academic Laboratory. , 2021, , 1125-1143.		4
11	Generation of Masked Ti ^{II} Intermediates from Ti ^{IV} Amides via Î²-H Abstraction or Alkyne Deprotonation: An Example of Ti-Catalyzed Nitrene-Coupled Transfer Hydrogenation. <i>Organometallics</i> , 2020, 39, 3771-3774.	2.3	4
12	Rethinking Graduate Recruitment Weekends in the Digital Age. <i>Journal of Chemical Education</i> , 2020, 97, 2544-2555.	2.3	2
13	Synthesis of pentasubstituted 2-aryl pyrroles from boryl and stannyl alkynes <i>via</i> one-pot sequential Ti-catalyzed [2 + 2 + 1] pyrrole synthesis/cross coupling reactions. <i>Chemical Science</i> , 2020, 11, 10236-10242.	7.4	13
14	Spectroscopic Study of Sol-Gel Entrapped Triruthenium Dodecacarbonyl Catalyst Reveals Hydride Formation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7394-7399.	4.6	4
15	Iterative Supervised Principal Component Analysis Driven Ligand Design for Regioselective Ti-Catalyzed Pyrrole Synthesis. <i>ACS Catalysis</i> , 2020, 10, 13504-13517.	11.2	20
16	Ti-catalyzed ring-opening oxidative amination of methylenecyclopropanes with diazenes. <i>Chemical Science</i> , 2020, 11, 7204-7209.	7.4	11
17	Synthesis and characterization of tantalum-based early-late heterobimetallic complexes supported by 2-(diphenylphosphino)pyrrolide ligands. <i>Polyhedron</i> , 2020, 181, 114471.	2.2	8
18	Multicomponent Pyrazole Synthesis from Alkynes, Nitriles, and Titanium Imido Complexes <i>via</i> Oxidatively Induced N-N Bond Coupling. <i>Journal of the American Chemical Society</i> , 2020, 142, 4390-4399.	13.7	55

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19	Reactivity of terminal imido complexes of group 4 ⁶ metals: Stoichiometric and catalytic reactions involving cycloaddition with unsaturated organic molecules. <i>Coordination Chemistry Reviews</i> , 2020, 407, 213118.	18.8	49
20	Cp ₂ Ti(Imido) ₂ BuNCN ₂ Bu: A Complex with an Unusual Imido ₂ Coordination Mode of a Heterocumulene Featuring a Free Carbene. <i>Journal of the American Chemical Society</i> , 2020, 142, 8006-8018.	13.7	24
21	The 4-Electron Cleavage of a N=N Double Bond by a Trimetallic TiNi ₂ Complex. <i>Inorganic Chemistry</i> , 2019, 58, 11762-11772.	4.0	11
22	Carbodiimide Synthesis via Ti-Catalyzed Nitrene Transfer from Diazenes to Isocyanides. <i>ACS Catalysis</i> , 2019, 9, 11753-11762.	11.2	30
23	Synthesis of Pyridylimido Complexes of Tantalum and Niobium by Reductive Cleavage of the N=N Bond of 2,2'-Azopyridine: Precursors for Early-Late Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 15155-15165.	4.0	17
24	Group 4 Diarylmetallocenes as Bespoke Aryne Precursors for Titanium-Catalyzed [2 + 2 + 2] Cycloaddition of Arynes and Alkynes. <i>Inorganic Chemistry</i> , 2019, 58, 10508-10515.	4.0	11
25	Mechanistic Study of Palladium-Catalyzed Hydroesterificative Copolymerization of Vinyl Benzyl Alcohol and CO. <i>Organometallics</i> , 2019, 38, 1778-1786.	2.3	8
26	Bis(imido)vanadium(V)-Catalyzed [2+2+1] Coupling of Alkynes and Azobenzenes Giving Multisubstituted Pyrroles. <i>Journal of the American Chemical Society</i> , 2019, 141, 4194-4198.	13.7	67
27	Dative Directing Group Effects in Ti-Catalyzed [2+2+1] Pyrrole Synthesis: Chemo- and Regioselective Alkyne Heterocoupling. <i>ACS Catalysis</i> , 2019, 9, 216-223.	11.2	45
28	Modern applications of low-valent early transition metals in synthesis and catalysis. <i>Nature Reviews Chemistry</i> , 2019, 3, 15-34.	30.2	155
29	Trimethylsilyl-Protected Alkynes as Selective Cross-Coupling Partners in Titanium-Catalyzed [2+2+1] Pyrrole Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6090-6094.	13.8	85
30	Trimethylsilyl-Protected Alkynes as Selective Cross-Coupling Partners in Titanium-Catalyzed [2+2+1] Pyrrole Synthesis. <i>Angewandte Chemie</i> , 2018, 130, 6198-6202.	2.0	11
31	Organometallic Complexes of Electrophilic Elements for Selective Synthesis. <i>Organometallics</i> , 2018, 37, 4311-4312.	2.3	4
32	In Situ Catalyst Generation and Benchtop-Compatible Entry Points for Ti ^{II} /Ti ^{IV} Redox Catalytic Reactions. <i>Organometallics</i> , 2018, 37, 4439-4445.	2.3	24
33	Let's Talk About Safety: Open Communication for Safer Laboratories. <i>Organometallics</i> , 2018, 37, 3225-3227.	2.3	17
34	Diverse Reactivity of Diazatitanacyclohexenes: Coupling Reactions of 2-H-Azirines Mediated by Titanium(II). <i>Organometallics</i> , 2018, 37, 4327-4331.	2.3	22
35	Oxidative nitrene transfer from azides to alkynes via Ti(II)/Ti(IV) redox catalysis: formal [2+2+1] synthesis of pyrroles. <i>Chemical Communications</i> , 2018, 54, 6891-6894.	4.1	40
36	Mechanism of Ti-Catalyzed Oxidative Nitrene Transfer in [2 + 2 + 1] Pyrrole Synthesis from Alkynes and Azobenzene. <i>Journal of the American Chemical Society</i> , 2018, 140, 7267-7281.	13.7	76

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37	Bioderived Acrylates from Alkyl Lactates via Pd-Catalyzed Hydroesterification. ACS Sustainable Chemistry and Engineering, 2018, 6, 9579-9584.	6.7	13
38	Generation of Till Alkyne Trimerization Catalysts in the Absence of Strong Metal Reductants. Organometallics, 2017, 36, 1383-1390.	2.3	35
39	Ethylene polymerization catalyzed by bridging Ni/Zn heterobimetallics. Dalton Transactions, 2017, 46, 5513-5517.	3.3	35
40	Measuring up with the early metals. Nature Chemistry, 2017, 9, 834-836.	13.6	2
41	Titanium redox catalysis: insights and applications of an earth-abundant base metal. Dalton Transactions, 2017, 46, 11522-11528.	3.3	41
42	Redox Non-Innocent Behavior of a Terminal Iridium Hydrazido(2 ⁻) Triple Bond. Angewandte Chemie - International Edition, 2016, 55, 13169-13173.	13.8	4
43	ZnCl ₂ Capture Promotes Ethylene Polymerization by a Salicylaldiminato Ni Complex Bearing a Pendant 2,2'-Bipyridine Group. Organometallics, 2016, 35, 2429-2432.	2.3	28
44	Ti-Catalyzed Multicomponent Oxidative Carboamination of Alkynes with Alkenes and Diazenes. Journal of the American Chemical Society, 2016, 138, 14570-14573.	13.7	62
45	Î ² -Oxo-Î ² -diimine Nickel Complexes: A Comparison of Tautomeric Active Species in Ethylene Polymerization Catalysis. Organometallics, 2016, 35, 2076-2085.	2.3	26
46	Structure and bonding of group 4-nickel heterobimetallics supported by 2-(diphenylphosphino)pyrrolide ligands. Dalton Transactions, 2016, 45, 9892-9901.	3.3	24
47	Catalytic formal [2+2+1] synthesis of pyrroles from alkynes and diazenes via Till/TiIV redox catalysis. Nature Chemistry, 2016, 8, 63-68.	13.6	132
48	Ethylene Polymerizations Using Parallel Pressure Reactors and a Kinetic Analysis of Chain Transfer Polymerization. Journal of Visualized Experiments, 2015, , .	0.3	0
49	Homo- and heteroleptic group 4 2-(diphenylphosphino)pyrrolide complexes: Synthesis, coordination chemistry and solution state dynamics. Polyhedron, 2014, 84, 111-119.	2.2	13
50	Analysis of Polymeryl Chain Transfer Between Group 10 Metals and Main Group Alkyls during Ethylene Polymerization. ACS Catalysis, 2014, 4, 4223-4231.	11.2	35
51	Alkyne Hydroamination and Trimerization with Titanium Bis(phenolate)pyridine Complexes: Evidence for Low-Valent Titanium Intermediates and Synthesis of an Ethylene Adduct of Titanium(II). Organometallics, 2013, 32, 3451-3457.	2.3	38