

# Atanas K Tomov

## List of Publications by Year in descending order

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30  
papers

1,542  
citations

331670

21  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Evidence for Large Ring Metallacycle Intermediates in Polyethylene Chain Growth Using Homogeneous Chromium Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 10166-10167.	13.7	155
2	Catalytic Polymerization of Ethylene in Emulsion. <i>Macromolecules</i> , 2001, 34, 2022-2026.	4.8	125
3	Distinguishing Chain Growth Mechanisms in Metal-catalyzed Olefin Oligomerization and Polymerization Systems: C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> D <sub>4</sub> Co-oligomerization/Polymerization Experiments Using Chromium, Iron, and Cobalt Catalysts. <i>Organometallics</i> , 2009, 28, 7033-7040.	2.3	107
4	Mono- versus Bis-chelate Formation in Triazenide and Amidinate Complexes of Magnesium and Zinc. <i>Inorganic Chemistry</i> , 2007, 46, 9988-9997.	4.0	87
5	Very Active Neutral P,O-Chelated Nickel Catalysts for Ethylene Polymerization. <i>Macromolecules</i> , 2001, 34, 2438-2442.	4.8	84
6	An Unprecedented $\hat{\pm}$ -Olefin Distribution Arising from a Homogeneous Ethylene Oligomerization Catalyst. <i>Journal of the American Chemical Society</i> , 2006, 128, 7704-7705.	13.7	84
7	The effect of the central donor in bis(benzimidazole)-based cobalt catalysts for the selective cis-1,4-polymerisation of butadiene. <i>Dalton Transactions</i> , 2010, 39, 9039.	3.3	79
8	Emulsion polymerization of ethylene in water medium catalysed by organotransition metal complexes. <i>Macromolecular Symposia</i> , 2000, 150, 53-58.	0.7	77
9	The effect of imine-carbon substituents in bis(imino)pyridine-based ethylene polymerisation catalysts across the transition series. <i>Catalysis Science and Technology</i> , 2012, 2, 643.	4.1	74
10	Functionalised polyolefin synthesis using [P,O]Ni catalysts. <i>Chemical Communications</i> , 2001, , 1964-1965.	4.1	72
11	Ethylene Oligomerization beyond Schulz-Flory Distributions. <i>ACS Catalysis</i> , 2015, 5, 6922-6925.	11.2	70
12	1,3-Butadiene Polymerization by Bis(benzimidazolyl)amine Metal Complexes: Remarkable Microstructural Control and a Protocol for In-Reactor Blending of <i>trans</i> -1,4-, <i>cis</i> -1,4-, and <i>cis</i> -1,4- <i>cis</i> -1,2-Vinylpolybutadiene. <i>Macromolecules</i> , 2009, 42, 1443-1444.	4.8	62
13	The effect of bulky substituents on the olefin polymerisation behaviour of nickel catalysts bearing [P,O] chelate ligands. <i>Chemical Communications</i> , 2001, , 719-720.	4.1	56
14	Ethylene polymerisation by a copper catalyst bearing $\hat{\pm}$ -diimine ligands. <i>Dalton Transactions RSC</i> , 2002, , 2261-2262.	2.3	52
15	Thio-Pybox and Thio-Phebox complexes of chromium, iron, cobalt and nickel and their application in ethylene and butadiene polymerisation catalysis. <i>Dalton Transactions</i> , 2012, 41, 5949.	3.3	51
16	Bis(benzimidazole)amine vanadium catalysts for olefin polymerisation and co-polymerisation: thermally robust, single-site catalysts activated by simple alkylaluminium reagents Electronic supplementary information (ESI) available: experimental procedures for 2 and 3 and polymerisation protocols. See <a href="http://www.rsc.org/suppdata/cc/b4/b407065h/">http://www.rsc.org/suppdata/cc/b4/b407065h/</a> . <i>Chemical Communications</i> , 2004, , 1956.	4.1	48
17	Dramatic Effect of Heteroatom Backbone Substituents on the Ethylene Polymerization Behavior of Bis(imino)pyridine Iron Catalysts. <i>Inorganic Chemistry</i> , 2004, 43, 6511-6512.	4.0	47
18	Ethene polymerization by binuclear nickel-ylide complexes. <i>Journal of Molecular Catalysis</i> , 1994, 88, 141-150.	1.2	43

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19	Binuclear nickel-ylide complexes as effective ethylene oligomerization/polymerization catalysts. <i>Journal of Molecular Catalysis A</i> , 1995, 103, 95-103.	4.8	36
20	Group 4 metal complexes bearing new tridentate (NNO) ligands: Benzyl migration and formation of unusual C=C coupled products. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 703-716.	1.8	32
21	Mechanistic study of ethylene tri- and tetramerisation with Cr/PNP catalysts: effects of additional donors. <i>Catalysis Science and Technology</i> , 2016, 6, 8234-8241.	4.1	30
22	Alternating $\hat{1}$ -Olefin Distributions via Single and Double Insertions in Chromium-Catalyzed Ethylene Oligomerization. <i>Organometallics</i> , 2017, 36, 510-522.	2.3	21
23	The Mathematics of Ethylene Oligomerisation and Polymerisation. <i>Topics in Catalysis</i> , 2020, 63, 294-318.	2.8	16
24	From alternating to selective distributions in chromium-catalysed ethylene oligomerisation with asymmetric BIMA ligands. <i>Catalysis Science and Technology</i> , 2018, 8, 1314-1321.	4.1	12
25	Vapour-phase synthesis of thiophene from crotonaldehyde and carbon disulfide over promoted chromia on $\hat{1}$ <sup>3</sup> -alumina catalysts. <i>Applied Catalysis A: General</i> , 2000, 192, 71-79.	4.3	6
26	A kinetic study of propylene dimerization by binuclear nickel-ylide complexes in presence of diethylaluminium chloride as cocatalyst. <i>Journal of Molecular Catalysis A</i> , 1996, 110, 25-32.	4.8	5
27	Title is missing!. <i>Catalysis Letters</i> , 2000, 64, 197-200.	2.6	4
28	Titanium complexes bearing bidentate benzimidazole-containing ligands and their behavior in ethylene polymerization. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 3889-3896.	1.8	4
29	Biaryl Group 4 Metal Complexes as Non-Metallocene Catalysts for Polyethylene with Long Chain Branching. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4088-4092.	2.0	3
30	Rearrangement of 2-methyl-2,3-epoxypentane: a kinetic study. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 81, 273-280.	0.6	0