

Jean-Charles Buffet

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,123
citations

27
h-index

44
g-index

88
ext. papers

2,402
ext. citations

6.1
avg, IF

5.28
L-index

#	Paper	IF	Citations
86	Aqueous miscible organic solvent treated NiTi layered double hydroxide De-NOx photocatalysts. <i>Chemical Engineering Journal</i> , 2022 , 429, 132361	14.7	0
85	Tuning Polyethylene Molecular Weight Distributions Using Catalyst Support Composition. <i>Macromolecules</i> , 2022 , 55, 3408-3414	5.5	1
84	Aged layered double hydroxide nanosheet-polyvinyl alcohol dispersions for enhanced gas barrier coating performance. <i>Materials Horizons</i> , 2021 , 8, 2823-2833	14.4	2
83	Non-toxic layered double hydroxide nanoplatelet dispersions for gas barrier coatings on flexible packaging. <i>Materials Advances</i> , 2021 , 2, 2626-2635	3.3	3
82	Supported permethylindenyl titanium catalysts for the synthesis of disentangled ultra-high molecular weight polyethylene (disUHMWPE). <i>Chemical Communications</i> , 2021 , 57, 8600-8603	5.8	1
81	CO activation by permethylpentalene amido zirconium complexes. <i>Dalton Transactions</i> , 2021 , 50, 4494-4498	4.9	1
80	Controlling the activity of an immobilised molecular catalyst by Lewis acidity tuning of the support. <i>Journal of Catalysis</i> , 2021 , 402, 94-100	7.3	3
79	Synthesis of dense porous layered double hydroxides from struvite. <i>Green Chemistry</i> , 2021 , 23, 1616-1620	10.8	3
78	Synthesis of ultra-high molecular weight poly(ethylene)-(1-hexene) copolymers through high-throughput catalyst screening.. <i>RSC Advances</i> , 2021 , 11, 5644-5650	3.7	2
77	Ring-opening polymerisation of l- and rac-lactide using group 4 permethylpentalene aryloxides and alkoxides. <i>Dalton Transactions</i> , 2021 , 50, 4805-4818	4.3	1
76	Synthesis of zirconocene complexes and their use in slurry-phase polymerisation of ethylene.. <i>RSC Advances</i> , 2021 , 11, 11529-11535	3.7	1
75	Polymethylaluminoxane organic frameworks (SMAOF) highly active supports for slurry phase ethylene polymerisation. <i>Catalysis Science and Technology</i> , 2021 , 11, 5472-5483	5.5	1
74	NiMn-layered double oxide electrodes in organic electrolyte based supercapacitors.. <i>RSC Advances</i> , 2021 , 11, 27267-27275	3.7	0
73	Group 4 constrained geometry complexes for olefin (co)polymerisation. <i>Molecular Catalysis</i> , 2020 , 486, 110872	3.3	5
72	A facile synthesis of layered double hydroxide based core@shell hybrid materials. <i>New Journal of Chemistry</i> , 2020 , 44, 10095-10101	3.6	9
71	Surface modification of aqueous miscible organic layered double hydroxides (AMO-LDHs). <i>Dalton Transactions</i> , 2020 , 49, 8498-8503	4.3	8
70	Correlations of acidity-basicity of solvent treated layered double hydroxides/oxides and their CO capture performance. <i>Dalton Transactions</i> , 2020 , 49, 9306-9311	4.3	6

69	Aspect Ratio Control of Layered Double Hydroxide Nanosheets and Their Application for High Oxygen Barrier Coating in Flexible Food Packaging. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10973-10982	9.5	11
68	Ethylene Polymerization Using Zirconocenes Supported on Pentafluorophenyl-Modified Solid Polymethylaluminoxane. <i>Macromolecules</i> , 2020 , 53, 929-935	5.5	7
67	Slurry-phase ethylene polymerisation using group 4 ansa-bridged permethylindenyl complexes supported on polymethylaluminoxane. <i>Molecular Catalysis</i> , 2020 , 484, 110735	3.3	3
66	Metallocene Polyethylene Wax Synthesis. <i>Macromolecules</i> , 2020 , 53, 5847-5856	5.5	7
65	Synthesis, characterisation and ethylene polymerisation performance of silyl bridged peralkylated bis(indenyl) zirconocenes. <i>Molecular Catalysis</i> , 2020 , 498, 111275	3.3	2
64	L- and rac-lactide polymerisation using scandium and aluminium permethylindenyl complexes. <i>Polymer Chemistry</i> , 2020 , 11, 6308-6318	4.9	1
63	Physicochemical surface-structure studies of highly active zirconocene polymerisation catalysts on solid polymethylaluminoxane activating supports. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3226-3233	7.8	1
62	Aqueous miscible organic layered double hydroxides as catalyst precursors for biodiesel synthesis. <i>Green Chemistry</i> , 2020 , 22, 3117-3121	10	6
61	Group 4 permethylindenyl complexes for slurry-phase polymerisation of ethylene. <i>Polymer Chemistry</i> , 2019 , 10, 1386-1398	4.9	12
60	Group 4 permethylindenyl complexes for the polymerisation of l-, d- and rac-lactide monomers. <i>Dalton Transactions</i> , 2019 , 48, 2510-2520	4.3	12
59	Bifunctional acid-base mesoporous silica@aqueous miscible organic-layered double hydroxides.. <i>RSC Advances</i> , 2019 , 9, 3749-3754	3.7	9
58	High gas barrier coating using non-toxic nanosheet dispersions for flexible food packaging film. <i>Nature Communications</i> , 2019 , 10, 2398	17.4	49
57	Synthesis, characterisation and slurry phase ethylene polymerisation of rac-(PhBBI*)ZrCl ₂ immobilised on modified layered double hydroxides. <i>Molecular Catalysis</i> , 2019 , 468, 139-147	3.3	8
56	Synthesis, characterisation and redox properties of anti-bimetallic permethylpentalene complexes. <i>Dalton Transactions</i> , 2019 , 48, 4263-4273	4.3	0
55	Constrained geometry scandium permethylindenyl complexes for the ring-opening polymerisation of l- and rac-lactide. <i>Dalton Transactions</i> , 2019 , 48, 16099-16107	4.3	5
54	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , 2019 , 2, 1078-1087	36.5	33
53	Layered double hydroxide nanosheets via solvothermal delamination. <i>Journal of Energy Chemistry</i> , 2019 , 35, 88-94	12	20
52	Synthesis and characterization of permethylpentalene titanium aryloxide and alkoxide complexes. <i>Polyhedron</i> , 2019 , 157, 146-151	2.7	4

51	Aqueous immiscible layered double hydroxides: synthesis, characterisation and molecular dynamics simulation. <i>Chemical Communications</i> , 2018 , 54, 4394-4397	5.8	16
50	Slurry-Phase Ethylene Polymerization Using Pentafluorophenyl- and Pentafluorophenoxy-Modified Solid Polymethylaluminoxanes. <i>Organometallics</i> , 2018 , 37, 156-164	3.8	15
49	Popcorn-shaped polyethylene synthesised using highly active supported permethylindenyl metallocene catalyst systems. <i>Chemical Communications</i> , 2018 , 54, 10970-10973	5.8	12
48	Group 4 permethylindenyl constrained geometry complexes for ethylene polymerisation catalysis. <i>Catalysis Science and Technology</i> , 2018 , 8, 5454-5461	5.5	14
47	Dendritic silica@aqueous miscible organic-layered double hydroxide hybrids. <i>Dalton Transactions</i> , 2018 , 47, 16413-16417	4.3	6
46	Water adsorbancy of high surface area layered double hydroxides (AMO-LDHs).. <i>RSC Advances</i> , 2018 , 8, 34650-34655	3.7	7
45	Aqueous immiscible layered double hydroxides IAIM-LDHs. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2277-2285	6	
44	Selective ethylene oligomerisation using supported tungsten mono-imido catalysts. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1048-1060	6.8	5
43	Zirconium arene triple-decker sandwich complexes: synthesis, electronic structure and bonding. <i>Chemical Communications</i> , 2017 , 53, 12048-12051	5.8	3
42	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pd-Mo catalyst. <i>Nature Communications</i> , 2017 , 8, 591	17.4	69
41	Controlling the Surface Hydroxyl Concentration by Thermal Treatment of Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2017 , 56, 7842-7850	5.1	15
40	Silica@layered double hydroxide core-shell hybrid materials. <i>Dalton Transactions</i> , 2017 , 47, 143-149	4.3	24
39	Hydrogen cleavage by solid-phase frustrated Lewis pairs. <i>Chemical Communications</i> , 2016 , 52, 10478-81	5.8	33
38	Supported bis(peralkylindenyl)metallocene catalysts for slurry phase ethylene polymerisation. <i>Polyhedron</i> , 2016 , 116, 216-222	2.7	11
37	Zirconocene alkoxides and aryloxides for the polymerization of L- and rac-lactide. <i>Journal of Organometallic Chemistry</i> , 2016 , 801, 87-95	2.3	7
36	Tungsten imido catalysts for selective ethylene dimerisation. <i>Chemical Communications</i> , 2016 , 52, 2850-3	3.8	17
35	Core-shell zeolite@aqueous miscible organic-layered double hydroxides. <i>Chemical Science</i> , 2016 , 7, 1457-1461	3.1	
34	Metallocene supported core@LDH catalysts for slurry phase ethylene polymerisation. <i>Chemical Communications</i> , 2016 , 52, 4076-9	5.8	24

33	Rapid, efficient phase pure synthesis of Ca ₂ AlNO ₃ layered double hydroxide. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 500-504	13	10
32	Polymethylaluminum supported zirconocene catalysts for polymerisation of ethylene. <i>Journal of Organometallic Chemistry</i> , 2016 , 822, 85-90	2.3	16
31	Synthesis and Characterization of Solid Polymethylaluminum: A Bifunctional Activator and Support for Slurry-Phase Ethylene Polymerization. <i>Chemistry of Materials</i> , 2016 , 28, 7444-7450	9.6	24
30	Titanium and Zirconium Permethylpentalene Complexes, Pn*MCpRX, as Ethylene Polymerization Catalysts. <i>Organometallics</i> , 2016 , 35, 2664-2674	3.8	21
29	Synthesis, characterisation, and polymerisation studies of hexamethylindenyl zirconocenes and hafnocenes. <i>Journal of Organometallic Chemistry</i> , 2015 , 792, 55-65	2.3	15
28	Group 1 and 2 cyclic (alkyl)(amino)carbene complexes. <i>Dalton Transactions</i> , 2015 , 44, 12985-9	4.3	27
27	Tuneable ultra high specific surface area Mg/Al-CO ₃ layered double hydroxides. <i>Dalton Transactions</i> , 2015 , 44, 16392-8	4.3	48
26	Synthesis and characterisation of permethylindenyl zirconium complexes and their use in ethylene polymerisation. <i>RSC Advances</i> , 2015 , 5, 87456-87464	3.7	28
25	Ethylene polymerisation using solid catalysts based on layered double hydroxides. <i>Polymer Chemistry</i> , 2015 , 6, 2493-2503	4.9	33
24	Highly Tunable Catalyst Supports for Single-Site Ethylene Polymerization. <i>Chemistry of Materials</i> , 2015 , 27, 1495-1501	9.6	44
23	Core-shell SiO ₂ @LDHs with tuneable size, composition and morphology. <i>Chemical Communications</i> , 2015 , 51, 3462-5	5.8	48
22	Synthesis and characterisation of layered double hydroxide dispersions in organic solvents. <i>RSC Advances</i> , 2014 , 4, 51676-51682	3.7	41
21	Chiral Group 4 Cyclopentadienyl Complexes and Their Use in Polymerization of Lactide Monomers. <i>Organometallics</i> , 2014 , 33, 3891-3903	3.8	34
20	Synthesis, characterisation and properties of bis(permethylindenyl) iron and tin complexes. <i>Journal of Organometallic Chemistry</i> , 2014 , 774, 48-56	2.3	2
19	Synthesis and characterisation of aqueous miscible organic-layered double hydroxides. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15102-15110	13	90
18	Early Transition Metal Permethylpentalene Complexes for the Polymerization of Ethylene. <i>Organometallics</i> , 2014 , 33, 3775-3785	3.8	14
17	Synthesis of Flame-Retardant Polypropylene/LDH-Borate Nanocomposites. <i>Macromolecules</i> , 2013 , 46, 6145-6150	5.5	132
16	Switching the Lactide Polymerization Activity of a Cerium Complex by Redox Reactions. <i>ChemCatChem</i> , 2013 , 5, 1088-1091	5.2	39

15	Small molecule activation by frustrated Lewis pairs. <i>Dalton Transactions</i> , 2013 , 42, 2431-7	4.3	47
14	Synthesis and characterisation of the ethylene bridged permethylindenyl cerium complex [(EBI*)CeI(THF)]. <i>Dalton Transactions</i> , 2012 , 41, 11267-9	4.3	6
13	Alkaline earth metal complexes of a chiral polyether as initiator for the ring-opening polymerization of lactide. <i>Dalton Transactions</i> , 2012 , 41, 12612-8	4.3	42
12	Synthesis, characterization, and lactide polymerization activity of group 4 metal complexes containing two bis(phenolate) ligands. <i>Inorganic Chemistry</i> , 2012 , 51, 5764-70	5.1	47
11	Group 3 metal initiators with an [OSSO]-type bis(phenolate) ligand for the stereoselective polymerization of lactide monomers. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1320-30	4.5	26
10	Controlled stereoselective polymerization of lactide monomers by group 4 metal initiators that contain an (OSSO)-type tetradentate bis(phenolate) ligand. <i>Polymer Chemistry</i> , 2011 , 2, 2378	4.9	53
9	Initiators for the stereoselective ring-opening polymerization of meso-lactide. <i>Polymer Chemistry</i> , 2011 , 2, 2758	4.9	122
8	Alkaline earth metal amide complexes containing a cyclen-derived (NNNN) macrocyclic ligand: synthesis, structure, and ring-opening polymerization activity towards lactide monomers. <i>New Journal of Chemistry</i> , 2011 , 35, 2253	3.6	52
7	Scandium alkyl and amide complexes containing a cyclen-derived (NNNN) macrocyclic ligand: synthesis, structure and ring-opening polymerization activity toward lactide monomers. <i>Dalton Transactions</i> , 2011 , 40, 7748-54	4.3	45
6	Group 4 metal initiators for the controlled stereoselective polymerization of lactide monomers. <i>Chemical Communications</i> , 2011 , 47, 4796-8	5.8	64
5	Stereoselective Polymerization of meso-Lactide: Syndiotactic Polylactide by Heteroselective Initiators Based on Trivalent Metals. <i>Macromolecules</i> , 2010 , 43, 10201-10203	5.5	77
4	Chiral indium alkoxide complexes as initiators for the stereoselective ring-opening polymerization of rac-lactide. <i>Inorganic Chemistry</i> , 2010 , 49, 419-26	5.1	95
3	Ligand recognition processes in the formation of homochiral C ₃ -symmetric LnL ₃ complexes of a chiral alkoxide. <i>Chemistry - A European Journal</i> , 2009 , 15, 8241-50	4.8	57
2	C ₃ -symmetric lanthanide tris(alkoxide) complexes formed by preferential complexation and their stereoselective polymerization of rac-lactide. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6033-6	16.4	146
1	C ₃ -Symmetric Lanthanide Tris(alkoxide) Complexes Formed by Preferential Complexation and Their Stereoselective Polymerization of rac-Lactide. <i>Angewandte Chemie</i> , 2008 , 120, 6122-6125	3.6	25