

Francis Verpoort

List of Publications by Year in descending order

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402
papers

16,688
citations

19657

61
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25787

108
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all docs

439
docs citations

439
times ranked

17916
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic frameworks: versatile heterogeneous catalysts for efficient catalytic organic transformations. <i>Chemical Society Reviews</i> , 2015, 44, 6804-6849.	38.1	1,190
2	Characterization and properties of Zn/Co zeolitic imidazolate frameworks vs. ZIF-8 and ZIF-67. <i>Journal of Materials Chemistry A</i> , 2017, 5, 952-957.	10.3	517
3	Metal organic frameworks mimicking natural enzymes: a structural and functional analogy. <i>Chemical Society Reviews</i> , 2016, 45, 4127-4170.	38.1	378
4	Metal-organic frameworks for upgrading biogas via CO ₂ adsorption to biogas green energy. <i>Chemical Society Reviews</i> , 2013, 42, 9304.	38.1	366
5	2D Dual-Metal Zeolitic-Imidazolate Framework (ZIF)-Derived Bifunctional Air Electrodes with Ultrahigh Electrochemical Properties for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705048.	14.9	361
6	N-heterocyclic carbene transition metal complexes for catalysis in aqueous media. <i>Chemical Society Reviews</i> , 2012, 41, 7032.	38.1	328
7	Applications of Raman spectroscopy in pharmaceutical analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 869-877.	11.4	324
8	Metal-organic molecular cages: applications of biochemical implications. <i>Chemical Society Reviews</i> , 2015, 44, 9-25.	38.1	310
9	Ruthenium complexes bearing bidentate Schiff base ligands as efficient catalysts for organic and polymer syntheses. <i>Coordination Chemistry Reviews</i> , 2005, 249, 3055-3074.	18.8	224
10	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1803768.	19.5	204
11	Self-assembled metal-organic polyhedra: An overview of various applications. <i>Coordination Chemistry Reviews</i> , 2016, 306, 171-194.	18.8	193
12	Latent olefin metathesis catalysts. <i>Chemical Society Reviews</i> , 2009, 38, 3360.	38.1	186
13	Ruthenium-Based Olefin Metathesis Catalysts Derived from Alkynes. <i>Chemical Reviews</i> , 2010, 110, 4865-4909.	47.7	183
14	Synthesis of Highly Active Ruthenium Indenylidene Complexes for Atom-Transfer Radical Polymerization and Ring-Opening-Metathesis Polymerization. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2876-2879.	13.8	172
15	Discrete metal-carboxylate self-assembled cages: Design, synthesis and applications. <i>Coordination Chemistry Reviews</i> , 2014, 280, 1-27.	18.8	164
16	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. <i>Environmental Pollution</i> , 2019, 247, 410-420.	7.5	145
17	Polymer-Based Stimuli-Responsive Recyclable Catalytic Systems for Organic Synthesis. <i>Small</i> , 2014, 10, 32-46.	10.0	144
18	Ruthenium Pincer Complexes: Synthesis and Catalytic Applications. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 283-330.	4.3	133

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19	Plant Food Residues as a Source of Nutraceuticals and Functional Foods. <i>Foods</i> , 2016, 5, 88.	4.3	133
20	Ruthenium pincer complexes: Ligand design and complex synthesis. <i>Coordination Chemistry Reviews</i> , 2014, 276, 112-152.	18.8	129
21	Catalytic Asymmetric Synthesis of Enantioenriched Heterocycles Bearing a C ₁ CF ₃ Stereogenic Center. <i>Chemistry - A European Journal</i> , 2015, 21, 8664-8684.	3.3	129
22	Alternative materials in technologies for Biogas upgrading via CO ₂ capture. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1414-1441.	16.4	125
23	Synthesis of amino-functionalized mesoporous alumina with enhanced affinity towards Cr(VI) and CO ₂ . <i>Chemical Engineering Journal</i> , 2014, 239, 207-215.	12.7	123
24	Heterogeneous tungsten-based catalysts for the epoxidation of bulky olefins. <i>Catalysis Today</i> , 2000, 60, 209-218.	4.4	118
25	Implementation of a Process Analytical Technology System in a Freeze-Drying Process Using Raman Spectroscopy for In-Line Process Monitoring. <i>Analytical Chemistry</i> , 2007, 79, 7992-8003.	6.5	115
26	Atom Transfer Radical Polymerization of Vinyl Monomers Mediated by Schiff Base Ruthenium ^{II} -Alkylidene Catalysts and the Adventitious Effect of Water in Polymerizations with the Analogous Cationic Complexes. <i>Macromolecules</i> , 2002, 35, 8943-8947.	4.8	113
27	A Ruthenium-Catalyzed Approach to the Friedländer Quinoline Synthesis. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1625-1631.	2.4	112
28	Metal-organic frameworks containing N-heterocyclic carbenes and their precursors. <i>Coordination Chemistry Reviews</i> , 2016, 307, 188-210.	18.8	107
29	Ordered mesoporous materials at the beginning of the third millennium: new strategies to create hybrid and non-siliceous variants. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 347-360.	2.8	102
30	Zeolitic imidazole framework-67 as an efficient heterogeneous catalyst for the conversion of CO ₂ to cyclic carbonates. <i>New Journal of Chemistry</i> , 2016, 40, 5170-5176.	2.8	102
31	ROMP and RCM catalysed by (R ₃ P) ₂ Cl ₂ Ru...CHPh immobilised on a mesoporous support. <i>Journal of Molecular Catalysis A</i> , 2001, 169, 47-56.	4.8	101
32	Olefin metathesis ruthenium catalysts bearing unsymmetrical heterocyclic carbenes. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2274-2292.	18.8	101
33	Assessing the Scope of the Introduction of Schiff Bases as Co-Ligands for Monometallic and Homobimetallic Ruthenium Ring-Opening Metathesis Polymerisation and Ring-Closing Metathesis Initiators. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 639.	4.3	99
34	A Highly Efficient Method for the Copper-Catalyzed Selective Synthesis of Diaryl Chalcogenides from Easily Available Chalcogen Sources. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 7331-7338.	2.4	99
35	Immobilization of multifunctional Schiff base containing ruthenium complexes on MCM-41. <i>Applied Catalysis A: General</i> , 2003, 247, 345-364.	4.3	93
36	1 Zn-doped ZIF-67 as catalyst for the CO ₂ fixation into cyclic carbonates. <i>Journal of CO₂ Utilization</i> , 2017, 20, 282-291.	6.8	91

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37	A Heterogeneous cis-Dihydroxylation Catalyst with Stable, Site-Isolated Osmium-Diolate Reaction Centers. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 586-589.	13.8	90
38	In-line monitoring of a pharmaceutical blending process using FT-Raman spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 21, 479-485.	4.0	90
39	Synthesis of 2D MOF having potential for efficient dye adsorption and catalytic applications. <i>Catalysis Science and Technology</i> , 2018, 8, 4010-4017.	4.1	90
40	Post-synthetic modified MOF for Sonogashira cross-coupling and Knoevenagel condensation reactions. <i>Journal of Catalysis</i> , 2016, 344, 445-454.	6.2	89
41	A heterogeneous Ru ^{II} -hydroxyapatite catalyst for mild racemization of alcohols. <i>Journal of Catalysis</i> , 2003, 219, 417-424.	6.2	87
42	Synthesis of Schiff Base-Ruthenium Complexes and Their Applications in Catalytic Processes. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1721-1743.	4.3	86
43	Ruthenium Indenylidene Complexes. <i>Platinum Metals Review</i> , 2005, 49, 33-40.	1.2	85
44	Indenylidene-Ruthenium Complexes Bearing Saturated N-Heterocyclic Carbenes: Synthesis and Catalytic Investigation in Olefin Metathesis Reactions. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 432-440.	2.0	84
45	A new class of ruthenium complexes containing Schiff base ligands as promising catalysts for atom transfer radical polymerization and ring opening metathesis polymerization. <i>Journal of Molecular Catalysis A</i> , 2002, 180, 67-76.	4.8	83
46	Metals@ZIFs: Catalytic applications and size selective catalysis. <i>Coordination Chemistry Reviews</i> , 2017, 353, 201-222.	18.8	83
47	N,N'-Dialkyl- and N-Alkyl-N-mesityl-Substituted N-Heterocyclic Carbenes as Ligands in Grubbs Catalysts. <i>Chemistry - A European Journal</i> , 2006, 12, 4654-4661.	3.3	82
48	Engineered synthesis of hierarchical porous organic polymers for visible light and natural sunlight induced rapid degradation of azo, thiazine and fluorescein based dyes in a unique mechanistic pathway. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 102-113.	20.2	79
49	Metathesis of 1-octene over MoO ₃ supported on mesoporous molecular sieves: The influence of the support architecture. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 44-54.	4.4	77
50	A recyclable Ag ^I /OAc ⁻ catalytic system for the efficient synthesis of α -alkylidene cyclic carbonates: carbon dioxide conversion at atmospheric pressure. <i>Green Chemistry</i> , 2017, 19, 2936-2940.	9.0	77
51	Tuning metal sites of DABCO MOF for gas purification at ambient conditions. <i>Microporous and Mesoporous Materials</i> , 2015, 201, 277-285.	4.4	74
52	Pyrrrole synthesis using a tandem Grubbs TM carbene ^{II} -RuCl ₃ catalytic system. <i>Tetrahedron Letters</i> , 2004, 45, 8995-8998.	1.4	73
53	Non-destructive analysis of paintings using Fourier transform Raman spectroscopy with fibre optics. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 263-269.	2.5	72
54	Defect formation in metal-organic frameworks initiated by the crystal growth-rate and effect on catalytic performance. <i>Journal of Catalysis</i> , 2017, 354, 84-91.	6.2	72

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55	Ruthenium Indenylidene and Vinylidene Complexes bearing Schiff Bases: Potential Catalysts in Enol-Ester Synthesis. <i>Synlett</i> , 2002, 2002, 0935-0941.	1.8	70
56	Self-sacrifice MOFs for heterogeneous catalysis: Synthesis mechanisms and future perspectives. <i>Materials Today</i> , 2022, 55, 137-169.	14.2	70
57	Heulandite/polyaniline hybrid composite for efficient removal of acidic dye from water; kinetic, equilibrium studies and statistical optimization. <i>Advanced Powder Technology</i> , 2018, 29, 2501-2511.	4.1	68
58	Extraction and characterization of natural fiber from <i>Eleusine indica</i> grass as reinforcement of sustainable fiber reinforced polymer composites. <i>Journal of Natural Fibers</i> , 2021, 18, 1742-1750.	3.1	67
59	Robust and efficient catalyst derived from bimetallic Zn/Co zeolitic imidazolate frameworks for CO ₂ conversion. <i>Journal of Catalysis</i> , 2019, 370, 38-45.	6.2	67
60	Xenes as an Emerging 2D Monoelemental Family: Fundamental Electrochemistry and Energy Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002885.	14.9	66
61	Engineering metal-organic frameworks for efficient photocatalytic conversion of CO ₂ into solar fuels. <i>Coordination Chemistry Reviews</i> , 2022, 450, 214245.	18.8	64
62	Synthesis and evaluation of a new class of ruthenium-based catalytic systems for atom transfer radical addition and enol ester synthesis. <i>Journal of Organometallic Chemistry</i> , 2003, 672, 11-16.	1.8	63
63	Synthesis and activity for ROMP of bidentate Schiff base substituted second generation Grubbs catalysts. <i>Journal of Molecular Catalysis A</i> , 2006, 260, 221-226.	4.8	63
64	Comparative Investigation of Hoveyda's Grubbs Catalysts bearing Modified N-Heterocyclic Carbene Ligands. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1692-1700.	4.3	63
65	Oxidative Desulfurization of Dibenzothiophene Catalyzed by Ionic Liquid [BMIm]HSO ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11760-11763.	3.7	61
66	Ruthenium-catalyzed selective anti-Markovnikov trans addition of carboxylic acids and tail-to-tail dimerization of terminal alkynes. <i>Tetrahedron Letters</i> , 2002, 43, 2713-2716.	1.4	60
67	Metal-Organic Polyhedra: Catalysis and Reactive Intermediates. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1351-1368.	4.3	58
68	Characterization of Natural Fibers from <i>Cortaderia Selloana</i> Grass (Pampas) as Reinforcement Material for the Production of the Composites. <i>Journal of Natural Fibers</i> , 2021, 18, 1893-1901.	3.1	58
69	Exploring new synthetic strategies in the development of a chemically activated Ru-based olefin metathesis catalyst. <i>Dalton Transactions</i> , 2007, , 5201.	3.3	57
70	Friction and Wear Mechanisms of Sintered and Thermoplastic Polyimides under Adhesive Sliding. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 523-556.	3.6	57
71	New Ultrastable Mesoporous Adsorbent for the Removal of Mercury Ions. <i>Langmuir</i> , 2010, 26, 10076-10083.	3.5	57
72	Solvothermal synthesis, crystal structure, and properties of lanthanide-organic frameworks based on thiophene-2,5-dicarboxylic acid. <i>Dalton Transactions</i> , 2011, 40, 11581.	3.3	57

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73	A highly controllable latent ruthenium Schiff base olefin metathesis catalyst: Catalyst activation and mechanistic studies. <i>Journal of Polymer Science Part A</i> , 2010, 48, 302-310.	2.3	56
74	Ring-closing metathesis, Kharasch addition and enol ester synthesis catalysed by a novel class of ruthenium(II) complexes. <i>Tetrahedron Letters</i> , 2001, 42, 8959-8963.	1.4	55
75	Activity of a new class of ruthenium based ring-closing metathesis and ring-opening metathesis polymerization catalysts coordinated with a 1,3-dimesityl-4,5-dihydroimidazol-2-ylidene and a Schiff base ligand. <i>Tetrahedron Letters</i> , 2002, 43, 9101-9104.	1.4	55
76	Earth-abundant metal complexes as catalysts for water oxidation; is it homogeneous or heterogeneous?. <i>Catalysis Science and Technology</i> , 2015, 5, 4901-4925.	4.1	55
77	Influence of acetate ions and the role of the diluents on the extraction of copper (II), nickel (II), cobalt (II), magnesium (II) and iron (II, III) with different types of extractants. <i>Hydrometallurgy</i> , 2005, 78, 92-106.	4.3	54
78	A novel 3D 4d ⁴ f heterometallic coordination polymer: Synthesis, crystal structure and luminescence. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1117-1120.	3.9	54
79	Base-mediated synthesis of quinolines: an unexpected cyclization reaction between 2-aminobenzylalcohol and ketones. <i>Tetrahedron Letters</i> , 2008, 49, 6893-6895.	1.4	54
80	Synthesis and characterization of chitosan-based waterborne polyurethane for textile finishes. <i>Carbohydrate Polymers</i> , 2018, 200, 54-62.	10.2	54
81	Atomic layer deposition-developed two-dimensional In_2MoO_3 windows excellent hydrogen peroxide electrochemical sensing capabilities. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 334-344.	7.8	53
82	Pd-nanoparticle decorated azobenzene based colloidal porous organic polymer for visible and natural sunlight induced Mott-Schottky junction mediated instantaneous Suzuki coupling. <i>Chemical Engineering Journal</i> , 2019, 358, 580-588.	12.7	53
83	Near-infrared FT-Raman spectroscopy as a rapid analytical tool for the determination of diltiazem hydrochloride in tablets. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 16, 63-67.	4.0	52
84	Taking the place of perylene diimide: perylene tetracarboxylic tetraester as a building block for polymeric acceptors to achieve higher open circuit voltage in all-polymer bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5612.	3.9	52
85	Nanostructured tungsten oxide thin film devices: from optoelectronics and ionics to iontronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12968-12990.	5.5	52
86	Improved ruthenium catalysts for the modified Friedlaender quinoline synthesis. <i>New Journal of Chemistry</i> , 2007, 31, 1572.	2.8	51
87	Investigating the sorption behavior of cadmium from aqueous solution by potassium permanganate-modified biochar: quantify mechanism and evaluate the modification method. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8330-8339.	5.3	51
88	Atom-economic dehydrogenative amide synthesis <i>via</i> ruthenium catalysis. <i>RSC Advances</i> , 2016, 6, 55599-55607.	3.6	50
89	Characterization of a Surface Coating Formed from Carboxylic Acid-Based Coolants. <i>Applied Spectroscopy</i> , 1999, 53, 1528-1534.	2.2	49
90	Easily accessible and robust olefin-metathesis catalysts based on ruthenium vinylidene complexes. <i>Journal of Molecular Catalysis A</i> , 2003, 200, 49-61.	4.8	49

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91	Selective Dimerisation and Addition of Carboxylic Acids to Terminal Alkynes, Catalysed by Thermolysed Grubbs's™ Catalyst: A Novel Synthesis of Enynes and Vinyl Esters. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 3779-3784.	2.4	48
92	Radical reactions catalysed by homobimetallic ruthenium(II) complexes bearing Schiff base ligands: atom transfer radical addition and controlled polymerisation. <i>Tetrahedron Letters</i> , 2002, 43, 4687-4690.	1.4	48
93	Cross-Linked Mixed-Matrix Membranes Using Functionalized UiO-66-NH ₂ into PEG/PPG- <i>g</i> -PDMS-Based Rubbery Polymer for Efficient CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57916-57931.	8.0	48
94	Bis-coordination of N-(Alkyl)-N-(2,6-diisopropylphenyl) Heterocyclic Carbenes to Grubbs Catalysts. <i>Organometallics</i> , 2007, 26, 1052-1056.	2.3	47
95	Atom transfer radical addition and enol-ester synthesis catalyzed by Ru-vinylidene complexes. <i>Tetrahedron Letters</i> , 2002, 43, 9259-9263.	1.4	46
96	Synthesis, Crystal Structures, and Properties of Novel Heterometallic La/Pr-Cu-K and Sm/Eu/Tb-Cu Coordination Polymers. <i>Crystal Growth and Design</i> , 2010, 10, 1059-1067.	3.0	46
97	Water-soluble NHC-Cu catalysts: applications in click chemistry, bioconjugation and mechanistic analysis. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9350-9356.	2.8	45
98	Metal-organic frameworks as catalysts for sugar conversion into platform chemicals: State-of-the-art and prospects. <i>Coordination Chemistry Reviews</i> , 2019, 401, 213064.	18.8	45
99	3D derived N-doped carbon matrix from 2D ZIF-L as an enhanced stable catalyst for chemical fixation. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 80-88.	4.4	45
100	Opportunities of Immobilized Homogeneous Metathesis Complexes as Prominent Heterogeneous Catalysts. <i>ChemCatChem</i> , 2016, 8, 3010-3030.	3.7	44
101	ALD-Developed Plasmonic Two-Dimensional Au-WO ₃ -TiO ₂ Heterojunction Architectonics for Design of Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10304-10314.	8.0	44
102	Metal-Organic Frameworks (MOFs) for Cancer Therapy. <i>Materials</i> , 2021, 14, 7277.	2.9	44
103	Easily Accessible Ring Opening Metathesis and Atom Transfer Radical Polymerization Catalysts based on Arene, Norbornadiene and Cyclooctadiene Ruthenium Complexes Bearing Schiff Base Ligands. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 393-401.	4.3	43
104	From atom transfer radical addition to atom transfer radical polymerisation of vinyl monomers mediated by ruthenium indenylidene complexes. <i>New Journal of Chemistry</i> , 2003, 27, 257-262.	2.8	43
105	Ag ₂ O and Co ₂ O ₃ nanocolloids as recyclable quasihomogeneous metal catalysts for the hydrogenation of α,β -unsaturated aldehydes to allylic alcohol fragrances. <i>Applied Catalysis A: General</i> , 2007, 325, 130-139.	4.3	43
106	A Robust Molecular Catalyst Generated In-situ for Photo- and Electrochemical Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 862-875.	6.8	43
107	Pt/H-beta zeolites as productive bifunctional catalysts for the one-step citronellal-to-menthol conversion. <i>Journal of Catalysis</i> , 2006, 243, 7-13.	6.2	42
108	Carboxylation of Terminal Alkynes with Carbon Dioxide Catalyzed by an In-situ Ag ₂ O/N-heterocyclic Carbene Precursor System. <i>ChemCatChem</i> , 2017, 9, 882-887.	3.7	42

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109	Preparation of pineapple waste-derived porous carbons with enhanced CO ₂ capture performance by hydrothermal carbonation-alkali metal oxalates assisted thermal activation process. <i>Chemical Engineering Research and Design</i> , 2019, 146, 130-140.	5.6	42
110	Rational design of electrospun nanofiber-typed electrocatalysts for water splitting: A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131133.	12.7	42
111	Catalytic application of a Ru-alkylidene in the nucleophilic addition of several carboxylic acids on terminal alkynes and the homo-coupling of 1-alkynes. <i>Journal of Organometallic Chemistry</i> , 2003, 671, 131-136.	1.8	41
112	Equilibrium Studies of Nickel(II), Copper(II), and Cobalt(II) Extraction with Aloxime 800, D2EHPA, and Cyanex Reagents. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 893-914.	2.0	41
113	Ruthenium-Based NHC-Arene Systems as Ring-Opening Metathesis Polymerisation Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5578-5583.	2.0	41
114	Development of a catalytic ceramic foam for efficient tar reforming of a catalytic filter for hot gas cleaning of biomass-derived syngas. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 111-119.	20.2	41
115	An N-heterocyclic carbene based MOF catalyst for Sonogashira cross-coupling reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 2050-2054.	4.1	41
116	Selective and adsorptive removal of anionic dyes and CO ₂ with azolium-based metal-organic frameworks. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 214-223.	9.4	41
117	Ultra-thin sub-10 nm Ga ₂ O ₃ -WO ₃ heterostructures developed by atomic layer deposition for sensitive and selective C ₂ H ₅ OH detection on ppm level. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 147-156.	7.8	41
118	Spectroscopic Analysis of Au-V-Based Catalysts and Their Activity in the Catalytic Removal of Diesel Soot Particulates. <i>Journal of Catalysis</i> , 2002, 209, 515-527.	6.2	40
119	Development and validation of a direct, non-destructive quantitative method for medroxyprogesterone acetate in a pharmaceutical suspension using FT-Raman spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 23, 355-362.	4.0	40
120	Ultra-fast hydrothermal synthesis of diastereoselective pure ethenylene-bridged periodic mesoporous organosilicas. <i>Chemical Communications</i> , 2007, , 2261.	4.1	40
121	Hydrothermal synthesis, crystal structure and properties of Ag(I)-4f compounds based on 1H-benzimidazole-5,6-dicarboxylic acid. <i>Dalton Transactions</i> , 2010, 39, 11383.	3.3	40
122	Highly active dinuclear cobalt complexes for solvent-free cycloaddition of CO ₂ to epoxides at ambient pressure. <i>Chemical Communications</i> , 2019, 55, 8274-8277.	4.1	40
123	Qualitative FT-Raman investigation of the ring opening metathesis polymerization of dicyclopentadiene. <i>Journal of Molecular Catalysis A</i> , 2006, 254, 180-185.	4.8	38
124	Efficient transformative HCHO capture by defective NH ₂ -UiO-66(Zr) at room temperature. <i>Environmental Science: Nano</i> , 2019, 6, 2931-2936.	4.3	38
125	Combinatorial screening and conventional testing of antimony-rich selective oxidation catalysts. <i>Journal of Catalysis</i> , 2003, 220, 136-145.	6.2	37
126	New Indenylidene-Schiff Base-Ruthenium Complexes for Cross-Metathesis and Ring-Closing Metathesis. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2689-2701.	4.3	37

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127	Investigation of the preparation and catalytic activity of supported Mo, W, and Re oxides as heterogeneous catalysts in olefin metathesis. <i>Catalysis Reviews - Science and Engineering</i> , 2016, 58, 113-156.	12.9	37
128	New Insights into the Progress on the Isobutane/Butene Alkylation Reaction and Related Processes for High-Quality Fuel Production. A Critical Review. <i>Energy & Fuels</i> , 2020, 34, 15525-15556.	5.1	37
129	In situ generation of highly active olefin metathesis initiators. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 5482-5486.	1.8	36
130	Indenylidene Complexes of Ruthenium Bearing NHC Ligands – Structure Elucidation and Performance as Catalysts for Olefin Metathesis. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 655-665.	2.4	36
131	Hydrothermal synthesis, structure, and photoluminescence of four complexes based on 1H-imidazole-4,5-dicarboxylate or 1H-imidazole-2-carboxylate ligands. <i>Journal of Coordination Chemistry</i> , 2010, 63, 4188-4200.	2.2	36
132	Mechanistic Insight into the Rhodium-Catalyzed O=C-H Insertion Reaction: A DFT Study. <i>Organometallics</i> , 2014, 33, 2448-2456.	2.3	36
133	A simple and robust AgI/KOAc catalytic system for the carboxylative assembly of propargyl alcohols and carbon dioxide at atmospheric pressure. <i>Catalysis Science and Technology</i> , 2017, 7, 2935-2939.	4.1	36
134	Spray drying of zeolitic imidazolate frameworks: investigation of crystal formation and properties. <i>CrystEngComm</i> , 2018, 20, 3601-3608.	2.6	36
135	Flexibility in Metal-Organic Frameworks: A Basic Understanding. <i>Catalysts</i> , 2019, 9, 512.	3.5	35
136	Periodic Mesoporous Organosilicas Consisting of 3D Hexagonally Ordered Interconnected Globular Pores. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5556-5562.	3.1	34
137	CO ₂ Cycloaddition to Epoxides by using M ^{II} ABCO Metal-Organic Frameworks and the Influence of the Synthetic Method on Catalytic Reactivity. <i>ChemistryOpen</i> , 2017, 6, 674-680.	1.9	34
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