## **Pascale Crochet**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Glycerol and derived solvents: new sustainable reaction media for organic synthesis. Chemical Communications, 2011, 47, 6208.	2.2	227
2	Metal-catalyzed amide bond forming reactions in an environmentally friendly aqueous medium: nitrile hydrations and beyond. Green Chemistry, 2013, 15, 46-66.	4.6	207
3	Metal-catalyzed transformations of propargylic alcohols into α,β-unsaturated carbonyl compounds: from the Meyer–Schuster and Rupe rearrangements to redox isomerizations. Dalton Transactions, 2010, 39, 4015.	1.6	155
4	Synthesis and Characterization of Hydrideâ^'Alkynyl, Allenylidene, Carbyne, and Functionalized-Alkynyl Complexes Containing the [Os(η5-C5H5)(PiPr3)2]+Fragment: The Complex [Os(η5-C5H5)(CCCPh2)(PiPr3)2]PF6, a New Type of Allenylidene Derivative from the Reactivity Point of View. Organometallics, 2000, 19, 2585-2596.	1.1	94
5	Areneâ^'Ruthenium(II) Complexes Containing Aminoâ^'Phosphine Ligands as Catalysts for Nitrile Hydration Reactions. Organometallics, 2010, 29, 3955-3965.	1.1	88
6	Water-Soluble Group 8 and 9 Transition Metal Complexes Containing a Trihydrazinophosphaadamantane Ligand: Catalytic Applications in Isomerization of Allylic Alcohols and Cycloisomerization of (Z)-Enynols in Aqueous Medium. Advanced Synthesis and Catalysis, 2006, 348, 1671-1679.	2.1	84
7	Water-soluble ruthenium(ii) catalysts [RuCl2(η6-arene){P(CH2OH)3}] for isomerization of allylic alcohols and alkyne hydration. Dalton Transactions, 2004, , 3635-3641.	1.6	81
8	Metal-catalyzed nitrile hydration reactions: The specific contribution of ruthenium. Journal of Organometallic Chemistry, 2014, 771, 93-104.	0.8	79
9	Catalytic synthesis of amides via aldoximes rearrangement. Chemical Communications, 2015, 51, 2495-2505.	2.2	77
10	Ruthenium-catalyzed redox isomerization/transfer hydrogenation in organic and aqueous media: A one-pot tandem process for the reduction of allylic alcohols. Green Chemistry, 2009, 11, 1992.	4.6	75
11	New Cyclopentadienylosmium Compounds Containing Unsaturated Carbon Donor Coligands: Synthesis, Structure, and Reactivity of Os(η5-C5H5)Cl(CCCPh2)(PiPr3). Organometallics, 1998, 17, 3479-3486.	1.1	73
12	Arene–Ruthenium(II) Complexes Containing Inexpensive Tris(dimethylamino)phosphine: Highly Efficient Catalysts for the Selective Hydration of Nitriles into Amides. Organometallics, 2011, 30, 5442-5451.	1.1	73
13	Catalytic Isomerization of Allylic Alcohols by (η6-p-Cymene)- Ruthenium(II) Complexes in Organic and Aqueous Media: New Recyclable and Highly Efficient Catalysts in Water Containing Ammonium-Functionalized Ligands. Advanced Synthesis and Catalysis, 2006, 348, 93-100.	2.1	70
14	Thiazolyl-phosphine hydrochloride salts: effective auxiliary ligands for ruthenium-catalyzed nitrile hydration reactions and related amide bond forming processes in water. Green Chemistry, 2013, 15, 2447.	4.6	65
15	Efficient Transfer Hydrogenation of Ketones Catalyzed by the Bis(isocyanide)â^'Ruthenium(II) Complexestrans,cis,cis-[RuX2(CNR)2(dppf)] (X = Cl, Br; dppf = 1,1â€-Bis(diphenylphosphino)ferrocene):Â Isolation of Active Mono- and Dihydride Intermediatesâ€. Organometallics, 2004, 23, 4836-4845.	1.1	64
16	Efficient Redox Isomerization of Allylic Alcohols under Mild Conditions Catalyzed by Areneâ^'Ruthenium(II) Complexes. Organometallics, 2006, 25, 4846-4849.	1.1	63
17	Highly water-soluble arene-ruthenium(ii) complexes: application to catalytic isomerization of allylic alcohols in aqueous medium. Green Chemistry, 2009, 11, 1681.	4.6	61
18	Ruthenium-Catalyzed Furan- and Pyrrole-Ring Formation. Current Organic Synthesis, 2008, 5, 343-364.	0.7	60

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19	Seven-Coordinate Dihydrido Complex OsH2(κ2-O2CCH3){κ1-OC(O)CH3}(PiPr3)2as Precursor of New Organometallic Compounds Containing Unsaturated η1-Carbon Ligands. Organometallics, 1998, 17, 4500-4509.	1.1	59
20	Five- and Six-Coordinate Ruthenium(II) Complexes Containing 2-Ph2PC6H4CHNtBu and 2-Ph2PC6H4CH2NHtBu as Chelate Ligands:  Synthesis, Characterization, and Catalytic Activity in Transfer Hydrogenation of Ketones. Organometallics, 2001, 20, 4369-4377.	1.1	57
21	Two- and Four-Electron Alkyne Ligands in Osmiumâ^'Cyclopentadienyl Chemistry:Â Consequences of the π⊥→M Interaction. Organometallics, 2002, 21, 305-314.	1.1	54
22	Arene-ruthenium(ii) complexes with hydrophilic P-donor ligands: versatile catalysts in aqueous media. Dalton Transactions, 2014, 43, 12447.	1.6	54
23	Ruthenium-Catalyzed Rearrangement of Aldoximes to Primary Amides in Water. Organometallics, 2012, 31, 6482-6490.	1.1	53
24	Exploring Rhodium(I) Complexes [RhCl(COD)(PR3)] (COD = 1,5-Cyclooctadiene) as Catalysts for Nitrile Hydration Reactions in Water: The Aminophosphines Make the Difference. ACS Catalysis, 2014, 4, 1901-1910.	5.5	52
25	Synthesis, reactivity and catalytic activity in transfer hydrogenation of ketones of ruthenium(ii) and ruthenium(iv) complexes containing the novel N-thiophosphorylated iminophosphorane-phosphine ligands Ph2PCH2P{î€NP(î€\$)(OR)2}Ph2(R = Et, Ph). Dalton Transactions, 2003, , 3240-3249.	1.6	51
26	Oxidative Addition of HX (X = H, SiR3, GeR3, SnR3, Cl) Molecules to the Complex Os(η5-C5H5)Cl(PiPr3)2. Organometallics, 1999, 18, 5034-5043.	1.1	50
27	Ruthenium(II) and Ruthenium(IV) Complexes Containing κ1-P-, κ2-P,O-, and κ3-P,N,O-Iminophosphorane-Phosphine Ligands Ph2PCH2P{NP(O)(OR)2}Ph2(R = Et, Ph): Synthesis, Reactivity, Theoretical Studies, and Catalytic Activity in Transfer Hydrogenation of Cyclohexanone. Inorganic Chemistry, 2003, 42, 3293-3307.	1.9	49
28	Ruthenium(iv)catalysts for the selective estragole to trans-anetholeisomerization in environmentally friendly media. Green Chemistry, 2011, 13, 307-313.	4.6	46
29	Ruthenium-catalyzed reduction of allylic alcohols using glycerol as solvent and hydrogen donor. Catalysis Communications, 2011, 13, 91-96.	1.6	46
30	Neutral and cationic (η6-arene)-ruthenium(II) complexes containing the iminophosphorane–phosphine ligand Ph2PCH2P(ĩN-p-C5F4N)Ph2: influence of the arene ring in catalytic transfer hydrogenation of cyclohexanone. Journal of Organometallic Chemistry, 2002, 663, 32-39.	0.8	45
31	Phosphinous Acidâ€Assisted Hydration of Nitriles: Understanding the Controversial Reactivity of Osmium and Ruthenium Catalysts. Chemistry - A European Journal, 2017, 23, 15210-15221.	1.7	44
32	Generation of Functionally Substituted Cyclopentadienyl Ligands in Osmium(IV) Chemistryâ€. Organometallics, 2001, 20, 240-253.	1.1	43
33	Novel ruthenium(ii) complexes containing imino- or aminophosphine ligands for catalytic transfer hydrogenation. New Journal of Chemistry, 2003, 27, 414-420.	1.4	43
34	Formation of Cationic Half-Sandwich Osmiumâ^'Vinylidene Complexes from [Os(Ε5-C5H5)(PiPr3)2]+ and Terminal Alkynes. Organometallics, 2001, 20, 4291-4294.	1.1	42
35	An Easy Entry to Dimers [{RuX(μ-X)(CO)(PâŒ'P)}2] (X = Cl, Br; PâŒ'P = 1,1â€~-Bis(diphenylphosphino)ferroo (R = H, Me): Efficient Catalyst Precursors in Transfer Hydrogenation of Ketones§. Organometallics, 2003, 22, 5226-5234.	ene,) Tj ETC 1.1	Qq1 1 0.7843 42
36	Bis(allyl)-Ruthenium(IV) Complexes: Promising Precursors for Catalytic Organic Synthesis. Current Organic Chemistry, 2006, 10, 165-183.	0.9	42

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37	Intramolecular Câ^C Bond Formation from β-Keto Phosphine and Allenylidene Ligands in Related Ruthenium(II) Cyclopentadienyl and Indenyl Complexes. X-ray Crystal Structure of (SRu,RC/RRu,SC)- [Ru(η5-C9H7)(PPh3){η2(P,O)-Ph2PCH(Me)C(But)O}][PF6] and (SRu,RC/RRu,SC)- [Ru{η2(C,P)-C(CCPh2)CH[C(O)But]PPh2}{η5-C9H7)(PPh3)]. Organometallics, 1997, 16, 5406-5415.	1.1	41
38	Areneâ€Ruthenium(II) and Bis(allyl)â€Ruthenium(IV) Complexes Containing 2â€ <del>(</del> Diphenylphosphanyl)pyridine Ligands: Potential Catalysts for Nitrile Hydration Reactions?. European Journal of Inorganic Chemistry, 2012, 2012, 4218-4230.	1.0	40
39	Ruthenium(II) Arene Complexes with Asymmetrical Guanidinate Ligands: Synthesis, Characterization, and Application in the Base-Free Catalytic Isomerization of Allylic Alcohols. Organometallics, 2012, 31, 8301-8311.	1.1	40
40	Ruthenium-Catalyzed Isomerizations of Allylic and Propargylic Alcohols in Aqueous and Organic Media: Applications in Synthesis. Synlett, 2008, 2008, 1105-1124.	1.0	38
41	Reactivity of Diphenylphosphino Enolato Ligands in Ruthenium(II) Complexes and Related Processes Involving Easy Cleavage of a Phosphorusâ° Carbon Bond in Functionalized Phosphine Ligands. Organometallics, 1996, 15, 3048-3061.	1.1	37
42	Ruthenium-catalyzed one-pot synthesis of primary amides from aldehydes in water. RSC Advances, 2013, 3, 5889.	1.7	36
43	Unusual Activation of 1,1-Diphenyl-2-propyn-1-ol Mediated by the Os(Î-5-C5H5) Unit. Organometallics, 1998, 17, 3141-3142.	1.1	35
44	Synthesis and Catalytic Activity of (η6-p-Cymene)(phosphane)ruthenium(II) Complexes Supported on Poly(biphenoxyphosphazene) or Chiral Poly(binaphthoxyphosphazene) Copolymers. European Journal of Inorganic Chemistry, 2004, 2004, 3668.	1.0	35
45	Developing the Kharasch Reaction in Aqueous Media: Dinuclear Group 8 and 9 Catalysts Containing the Bridging Cage Ligand Tris(1,2-dimethylhydrazino)diphosphane. European Journal of Inorganic Chemistry, 2008, 2008, 786-794.	1.0	35
46	Ruthenium-catalyzed estragole isomerization: high trans-selective formation of anethole. Green Chemistry, 2010, 12, 1311.	4.6	33
47	Investigation of binap-based hydroxyphosphine arene–ruthenium( <scp>ii</scp> ) complexes as catalysts for nitrile hydration. RSC Advances, 2014, 4, 63466-63474.	1.7	31
48	Strengthening the Combination between Enzymes and Metals in Aqueous Medium: Concurrent Ruthenium atalyzed Nitrile Hydration ―Asymmetric Ketone Bioreduction. ChemCatChem, 2018, 10, 4676-4682.	1.8	31
49	Ruthenium(II) complexes containing 2-diphenylphosphinobenzaldehyde: synthesis and catalytic activity in transfer hydrogenation§. Inorganica Chimica Acta, 2003, 356, 114-120.	1.2	30
50	lbuprofenamide: a convenient method of synthesis by catalytic hydration of 2-(4-isobutylphenyl)propionitrile in pure aqueous medium. Tetrahedron Letters, 2011, 52, 4218-4220.	0.7	30
51	Chlorophosphines as auxiliary ligands in ruthenium-catalyzed nitrile hydration reactions: application to the preparation of Î <sup>2</sup> -ketoamides. Catalysis Science and Technology, 2016, 6, 4398-4409.	2.1	29
52	Chiral phosphonite, phosphite and phosphoramidite η6-arene-ruthenium(ii) complexes: application to the kinetic resolution of allylic alcohols. Dalton Transactions, 2010, 39, 7780.	1.6	27
53	The chemistry of Group 8 metal complexes with phosphinous acids and related P OH ligands. Coordination Chemistry Reviews, 2019, 387, 199-234.	9.5	27
54	Palladium( <scp>ii</scp> ) complexes with a phosphino-oxime ligand: synthesis, structure and applications to the catalytic rearrangement and dehydration of aldoximes. Catalysis Science and Technology, 2015, 5, 3754-3761.	2.1	26

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55	The hemilabile behaviour of alkyl diphenylphosphinoacetate ligands promoting the reversible coordination of small molecules on (η6-arene)ruthenium(II) centres. Journal of Organometallic Chemistry, 1994, 471, 229-239.	0.8	25
56	Catalytic isomerization of allylic alcohols promoted by complexes [RuCl2(η6-arene)(PTA-Me)] under homogeneous conditions and supported on Montmorillonite K-10. Journal of Molecular Catalysis A, 2013, 366, 390-399.	4.8	24
57	Chelating and Hemilabile Properties of .beta and .gammaKeto Phosphines: (.eta.6-Arene)ruthenium(II) Derivatives from .gammaKeto Phosphines, Synthesis and Reactivity of Bis(.eta.2-keto) Tj ETQq1 1 0.784314 rgBT	∫ <b>Ω</b> verlock	2 <b>20</b> Tf 50 6
58	Ruthenium-Catalyzed Amide-Bond Formation. Topics in Organometallic Chemistry, 2014, , 81-118.	0.7	22
59	New fluoroionophores from aniline dimer derivatives: a variation of cation signalling mechanism with the number of amino groups. Chemical Communications, 2000, , 289-290.	2.2	20
60	Reactivity of the Dimer [{RuCl(μ-Cl)(η3:η3-C10H16)}2] (C10H16 = 2,7-Dimethylocta-2,6-diene-1,8-diyl) toward Guanidines: Access to Ruthenium(IV) and Ruthenium(II) Guanidinate Complexes. Organometallics, 2015, 34, 2796-2809.	1.1	20
61	Imination reactions of free and coordinated 2-diphenylphosphino-1-phenyl-phospholane: Access to regioisomeric ruthenium(ii) complexes containing novel iminophosphorane–phosphine ligands. New Journal of Chemistry, 2006, 30, 1295-1306.	1.4	19
62	Ruthenium-Catalyzed Synthesis of β-Hydroxyamides from β-Ketonitriles in Water. Organic Letters, 2016, 18, 6164-6167.	2.4	19
63	Facile transmetalation of a pyridyl-phosphine ligand from ruthenium to gold and silver. Journal of Organometallic Chemistry, 2013, 727, 1-9.	0.8	18
64	Tethered η <sup>5</sup> -Oxocyclohexadienyl Piano-Stool Ruthenium(II) Complexes: A New Class of Catalysts?. Organometallics, 2014, 33, 6294-6297.	1.1	18
65	Half-sandwich ruthenium(II) complexes with water-soluble Schiff base ligands: Synthesis and catalytic activity in transfer hydrogenation of carbonyl compounds. Inorganica Chimica Acta, 2017, 456, 142-148.	1.2	18
66	Halfâ€ <b>S</b> andwich Guanidinate–Osmium(II) Complexes: Synthesis and Application in the Selective Dehydration of Aldoximes. European Journal of Inorganic Chemistry, 2016, 2016, 393-402.	1.0	17
	Octahedral ruthenium(II) complexes cis,cis-[RuX2(CNR)(CO)(Pâ^§P)] and cis,cis,cis-[RuX2(CO)2(Pâ^§P)] (X=Cl,) Tj	ETQq11(	0.784314 r
67	catalytic applications in transfer hydrogenation of acetophenone and cycloisomerization of (Z)-3-methylpent-2-en-4-yn-1-ol. Iournal of Organometallic Chemistry, 2007, 692, 5234-5244.	0.8	10
68	A general route for the stereoselective synthesis of (E)-(1-propenyl)phenyl esters by catalytic CC bond isomerization. Tetrahedron, 2012, 68, 2611-2620.	1.0	16
69	Half-sandwich ruthenium(ii) complexes with tethered arene-phosphinite ligands: synthesis, structure and application in catalytic cross dehydrogenative coupling reactions of silanes and alcohols. Dalton Transactions, 2020, 49, 210-222.	1.6	16
70	Cymeneâ€Osmium(II) Complexes with Aminoâ€Phosphane Ligands as Precatalysts for Nitrile Hydration Reactions. ChemistrySelect, 2018, 3, 4324-4329.	0.7	14
71	Synthesis and catalytic applications of ruthenium( <scp>ii</scp> )–phosphino-oxime complexes. RSC Advances, 2016, 6, 39044-39052.	1.7	13
72	Water-tolerant bis(allyl)-ruthenium(IV) catalysts: An account of their applications. Inorganica Chimica Acta, 2017, 455, 398-414.	1.2	13

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#	Article	IF	CITATIONS
73	Interference of Phosphino Enolato Ligands in the 1-Alkyne-to-Vinylidene Rearrangement: Syntheses of the Isomeric {(mesitylene)Ru[.eta.3-CH:CHC(PPh2)(Me)C(But):O]}[PF6] and {(mesitylene)Ru[.eta.3-C(:CH2)C(PPh2)(Me)C(But):O]}[PF6] Ruthenium(II) Complexes. Organometallics, 1995, 14, 2173-2176.	1.1	12
74	Functionalized arene–ruthenium(ii) complexes: dangling vs. tethering side chain. Dalton Transactions, 2013, 42, 5412.	1.6	12
75	C–H versus O–H Bond Activation in Phosphino-alcohol Ligands: Synthesis of the α-Hydroxy-alkyl Ruthenium(II) Derivatives [RuCl{Î <sup>e</sup> <sup>2</sup> ( <i>P,C</i> )-Ph <sub>2</sub> PC <sub>6</sub> H <sub>4</sub> C(R)OH}(Î- <sup>6</sup> -a Organometallics. 2015. 34. 3670-3677.	rene)].	12
76	Half-sandwich ruthenium(II) complexes containing a tricyclic β-iminophosphine ligand: Catalytic activity in Diels–Alder reactions. Polyhedron, 2007, 26, 933-940.	1.0	11
77	Ruthenium(II) Complexes with η <sup>6</sup> -Coordinated 3-Phenylpropanol and 2-Phenylethanol as Catalysts for the Tandem Isomerization/Claisen Rearrangement of Diallyl Ethers in Water. Organometallics, 2018, 37, 3465-3474.	1.1	11
78	Hydrophilic (η <sup>6</sup> -Arene)–Ruthenium(II) Complexes with P–OH Ligands as Catalysts for the Isomerization of Allylbenzenes and C–H Bond Arylation Reactions in Water. Organometallics, 2019, 38, 3696-3706.	1.1	9
79	Catalytic hydration of cyanamides with phosphinous acid-based ruthenium( <scp>ii</scp> ) and osmium( <scp>ii</scp> ) complexes: scope and mechanistic insights. Catalysis Science and Technology, 2020, 10, 4084-4098.	2.1	9
80	Iridium(I)â€Catalyzed Coupling of ( <i>Z</i> )â€2â€Enâ€4â€ynâ€1â€ols with Activated Alkynes: A New Synthetic 7â€Oxanorbornadienes. Advanced Synthesis and Catalysis, 2010, 352, 2427-2431.	Route to	7
81	Eugenol isomerization promoted by arene–ruthenium(ii) complexes in aqueous media: influence of the pH on the catalytic activity. RSC Advances, 2013, 3, 19985.	1.7	7
82	Arene-ruthenium(II) and osmium(II) complexes as catalysts for nitrile hydration and aldoxime rearrangement reactions. Inorganica Chimica Acta, 2021, 517, 120180.	1.2	7
83	Synthesis of β-hydroxyamides through ruthenium-catalyzed hydration/transfer hydrogenation of β-ketonitriles in water: Scope and limitations. Journal of Organometallic Chemistry, 2019, 896, 90-101.	0.8	6
84	Preparation and Stoichiometric Reactivity of Metal Allenylidene Complexes. , 0, , 61-98.		5
85	A Catalytic System for the Estragole to Anethole Isomerization Based on [{RuCl(µ-Cl)(η <sup>6</sup> -p-cymene)} <sub>2</sub> ]. Current Green Chemistry, 2013, 1, 128-135.	0.7	5
86	Access to <i>α</i> ―and <i>β</i> â€Hydroxyamides and Ureas Through Metalâ€Catalyzed C≡N Bond Hydra Transfer Hydration Reactions. European Journal of Inorganic Chemistry, 2021, 2021, 3225-3238.	tion and	4
87	Arene-Osmium(II) Complexes in Homogeneous Catalysis. Inorganics, 2021, 9, 55.	1.2	3
88	Chapter 2. Metal-catalyzed Reactions in Water under MW Irradiation. RSC Green Chemistry, 2010, , 10-54.	0.0	2
89	Half-Sandwich Arene-Osmium(II) Complexes with Phosphinite Ligands. MolBank, 2020, 2020, M1110.	0.2	1
90	Dichloro(η6-p-cymene)(P,P-diphenyl-N-propyl-phosphinous amide-κP)ruthenium(II). MolBank, 2021, 2021, M1217.	0.2	1

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91	N-[(1R)-1-(4-Chlorophenyl)ethyl]-Cyanamide. MolBank, 2021, 2021, M1198.	0.2	0