Alvise Perosa

List of Publications by Citations

128 papers	2,740 citations	32 h-index	46 g-index
158 ext. papers	3,120 ext. citations	6.8 avg, IF	5.42 L-index

#	Paper	IF	Citations
128	Selective Hydrogenolysis of Glycerol with Raney Nickel. *Industrial & Engineering Chemistry Research*, **2005**, 44, 8535-8537	3.9	179
127	Green chemistry metrics: a comparative evaluation of dimethyl carbonate, methyl iodide, dimethyl sulfate and methanol as methylating agents. *Green Chemistry*, **2008**, 10, 457	10	142
126	Dimethyl carbonate: a versatile reagent for a sustainable valorization of renewables. *Green Chemistry*, **2018**, 20, 288-322	10	138
125	Ionic liquids made with dimethyl carbonate: solvents as well as boosted basic catalysts for the michael reaction. *Chemistry - A European Journal*, **2009**, 15, 12273-82	4.8	88
124	Multiphasic heterogeneous catalysis mediated by catalyst-philic liquid phases. *Chemical Society Reviews*, **2007**, 36, 532-50	58.5	72
123	Reaction of functionalized anilines with dimethyl carbonate over NaY faujasite. 3. chemoselectivity toward mono-N-methylation. *Journal of Organic Chemistry*, **2003**, 68, 7374-8	4.2	68
122	Upgrade of Biomass-Derived Levulinic Acid via Ru/C-Catalyzed Hydrogenation to γ-Valerolactone in Aqueous/Organic/Ionic Liquids Multiphase Systems. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 180-189	8.3	61
121	The synthesis of alkyl carbamates from primary aliphatic amines and dialkyl carbonates in supercritical carbon dioxide. *Tetrahedron Letters*, **2002**, 43, 1217-1219	2	57
120	Carbon Dots from Sugars and Ascorbic Acid: Role of the Precursors on Morphology, Properties, Toxicity, and Drug Uptake. *ACS Medicinal Chemistry Letters*, **2018**, 9, 832-837	4.3	56
119	Reaction of primary aromatic amines with alkyl carbonates over NaY faujasite: a convenient and selective access to mono-N-alkyl anilines. *Journal of Organic Chemistry*, **2001**, 66, 677-80	4.2	56
118	Applications of Dimethyl Carbonate for the Chemical Upgrading of Biosourced Platform Chemicals. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6471-6479	8.3	50
117	Design of Carbon Dots for Metal-free Photoredox Catalysis. *ACS Applied Materials & Interfaces*, **2018**, 10, 40560-40567	9.5	50
116	Liquid phase hydrodechlorination of dieldrin and DDT over Pd/C and Raney-Ni. *Applied Catalysis B: Environmental*, **2005**, 55, 39-48	21.8	48
115	Mono-N-methylation of primary amines with alkyl methyl carbonates over Y faujasites. 2. Kinetics and selectivity. *Journal of Organic Chemistry*, **2002**, 67, 9238-47	4.2	47
114	Carbonate phosphonium salts as catalysts for the transesterification of dialkyl carbonates with diols. The competition between cyclic carbonates and linear dicarbonate products. *Organic and Biomolecular Chemistry*, **2014**, 12, 4143-55	3.9	45
113	Heck reaction catalyzed by Pd/C, in a triphasic-organic/Aliquat 336/aqueous-solvent system. *Organic and Biomolecular Chemistry*, **2004**, 2, 2249-52	3.9	45
112	Carbonate, acetate and phenolate phosphonium salts as catalysts in transesterification reactions for the synthesis of non-symmetric dialkyl carbonates. *Organic and Biomolecular Chemistry*, **2012**, 10, 6569-78	3.9	42

111	A mild catalytic detoxification method for PCDDs and PCDFs. *Applied Catalysis B: Environmental*, **2001**, 32, L1-L7	21.8	42
110	The reaction of primary aromatic amines with alkylene carbonates for the selective synthesis of bis-N-(2-hydroxy)alkylanilines: the catalytic effect of phosphonium-based ionic liquids. *Organic and Biomolecular Chemistry*, **2010**, 8, 5187-98	3.9	41
109	Selective n,n-dimethylation of primary aromatic amines with methyl alkyl carbonates in the presence of phosphonium salts. *Journal of Organic Chemistry*, **2006**, 71, 5770-3	4.2	41
108	Reactions of p-coumaryl alcohol model compounds with dimethyl carbonate. Towards the upgrading of lignin building blocks. *Green Chemistry*, **2013**, 15, 3195	10	40
107	Thermal (Catalyst-Free) Transesterification of Diols and Glycerol with Dimethyl Carbonate: A Flexible Reaction for Batch and Continuous-Flow Applications. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 6144-6151	8.3	40
106	Upgrading of Levulinic Acid with Dimethylcarbonate as Solvent/Reagent. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 989-994	8.3	39
105	Dechlorination of lindane in the multiphase catalytic reduction system with Pd/C, Pt/C and Raney-Ni. *Applied Catalysis B: Environmental*, **2004**, 47, 27-36	21.8	37
104	Green organic syntheses: organic carbonates as methylating agents. *Chemical Record*, **2002**, 2, 13-23	6.6	37
103	Selective mono-C-methylations of arylacetonitriles and arylacetates with dimethylcarbonate: a mechanistic investigation. *Journal of Organic Chemistry*, **2002**, 67, 1071-7	4.2	37
102	Decarboxylation of dialkyl carbonates to dialkyl ethers over alkali metal-exchanged faujasites. *Green Chemistry*, **2011**, 13, 863	10	36
101	Synthesis of methyl carbamates from primary aliphatic amines and dimethyl carbonate in supercritical CO2: effects of pressure and cosolvents and chemoselectivity. *Journal of Organic Chemistry*, **2005**, 70, 2771-7	4.2	35
100	Multiphase heterogeneous catalytic enantioselective hydrogenation of acetophenone over cinchona-modified Pt/C. *Journal of Molecular Catalysis A*, **2002**, 180, 169-175		34
99	Selectivity in the Pentacarbonyliron-Promoted Cyclocarbonylation of Enediynes. *Organometallics*, **1995**, 14, 5178-5183	3.8	34
98	Sequential coupling of the transesterification of cyclic carbonates with the selective N-methylation of anilines catalysed by faujasites. *Green Chemistry*, **2008**, 10, 1068	10	33
97	Alkyl Methyl Carbonates as Methylating Agents. The O-Methylation of Phenols. *Synlett*, **2000**, 2000, 272-274	2.7	32
96	Hydrodechlorination and Hydrogenation over Raney® Ni under Multiphase Conditions: Role of Multiphase Environment in Reaction Kinetics and Selectivity. *Journal of Catalysis*, **2002**, 211, 347-354	7.3	31
95	Multiphase Catalytic Hydrogenation of p-Chloroacetophenone and Acetophenone. A Kinetic Study of the Reaction Selectivity toward the Reduction of Different Functional Groups. *Journal of Catalysis*, **2000**, 196, 330-338	7.3	30
94	Selectivity issues in the catalytic multiphase reduction of functionalized halogenated aromatics over Pd/C, Pt/C, and Raney-Ni. *Applied Catalysis A: General*, **2004**, 271, 129-136	5.1	26

93	Mild catalytic multiphase hydrogenolysis of benzyl ethers. *Green Chemistry*, **2002**, 4, 492-494	10	26
92	Chemoselective reactions of dimethyl carbonate catalysed by alkali metal exchanged faujasites: the case of indolyl carboxylic acids and indolyl-substituted alkyl carboxylic acids. *Green Chemistry*, **2007**, 9, 463	10	25
91	Toward the Design of Halide- and Metal-Free Ionic-Liquid Catalysts for the Cycloaddition of CO2 to Epoxides. *Asian Journal of Organic Chemistry*, **2014**, 3, 504-513	3	23
90	Ionic liquids as transesterification catalysts: applications for the synthesis of linear and cyclic organic carbonates. *Beilstein Journal of Organic Chemistry*, **2016**, 12, 1911-1924	2.5	23
89	Towards a Rational Design of a Continuous-Flow Method for the Acetalization of Crude Glycerol: Scope and Limitations of Commercial Amberlyst 36 and AlF□3H□O as Model Catalysts. *Molecules*, **2016**, 21,	4.8	23
88	A Multiphase Protocol for Selective Hydrogenation and Reductive Amination of Levulinic Acid with Integrated Catalyst Recovery. *ChemSusChem*, **2019**, 12, 3343-3354	8.3	22
87	A flexible Pinner preparation of orthoesters: the model case of trimethylorthobenzoate. *Green Chemistry*, **2013**, 15, 2252	10	22
86	Methylcarbonate and bicarbonate phosphonium salts as catalysts for the nitroaldol (Henry) reaction. *Journal of Organic Chemistry*, **2012**, 77, 1805-11	4.2	22
85	Cooperative nucleophilic-electrophilic organocatalysis by ionic liquids. *Chemical Communications*, **2012**, 48, 5178-80	5.8	22
84	Selective n,n-dibenzylation of primary aliphatic amines with dibenzyl carbonate in the presence of phosphonium salts. *Journal of Organic Chemistry*, **2004**, 69, 3953-6	4.2	21
83	High-Temperature Batch and Continuous-Flow Transesterification of Alkyl and Enol Esters with Glycerol and Its Acetal Derivatives. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3964-3973	8.3	20
82	Extractive Denitrogenation of Fuel Oils with Ionic Liquids: A Systematic Study. *Energy & Fuels*, **2017**, 31, 2183-2189	4.1	20
81	Ionic Liquids: □Designer□Solvents for Green Chemistry103-130		20
80	Renewable Aromatics from Kraft Lignin with Molybdenum-Based Catalysts. *ChemCatChem*, **2017**, 9, 2717-2726	5.2	19
79	Hydrodehalogenation of Halogenated Aryl Ketones under Multiphase Conditions. 5. Chemoselectivity toward Aryl Alcohols over a Pt/C Catalyst. *Journal of Organic Chemistry*, **1998**, 63, 3266-3271	4.2	19
78	Upgrading of Biobased Lactones with Dialkylcarbonates. *ACS Sustainable Chemistry and Engineering* , **2014**, 2, 2131-2141	8.3	17
77	Liquid-phase and multiphase hydrodehalogenation of halobenzenes over Pd/C: Reaction selectivity and inhibition/promotion effects by the quaternary salt. *Journal of Catalysis*, **2004**, 226, 9-15	7.3	17
76	Phase-transfer promotion of hydrodechlorination of chlorophenoxy-pesticides over Pd/C and Raney-Ni. *Applied Catalysis B: Environmental*, **2005**, 55, 49-56	21.8	16

75	Hydroformylation of norbornene and 2,5-norbornadiene catalysed by platinum(0)-alkene complexes in the presence of methanesulfonic acid: determination of the stereochemistry of the reaction. *Journal of Organometallic Chemistry*, **1993**, 447, 153-157	2.3	16
74	Carbon dots as photocatalysts for organic synthesis: metal-free methylene–oxygen-bond photocleavage. *Green Chemistry*, **2020**, 22, 1145-1149	10	16
73	Modifier effects on Pt/C, Pd/C, and Raney-Ni catalysts in multiphase catalytic hydrogenation systems. *Journal of Molecular Catalysis A*, **2003**, 204-205, 747-754		15
72	Hydrodehalogenation of Halogenated Aryl Ketones under Multiphase Conditions. 6. pH Effect on the Chemoselectivity and Preliminary Mechanistic Investigation. *Journal of Organic Chemistry*, **1999**, 64, 3934-3939	4.2	15
71	Tandem catalysis: one-pot synthesis of cyclic organic carbonates from olefins and carbon dioxide. *Green Chemistry*, **2021**, 23, 1921-1941	10	15
70	Phosphonium-based tetrakis dibenzoylmethane Eu(III) and Sm(III) complexes: synthesis, crystal structure and photoluminescence properties in a weakly coordinating phosphonium ionic liquid. *RSC Advances*, **2015**, 5, 60898-60907	3.7	14
69	Eco-friendly synthesis of β-nitro ketones from conjugated enones: an important improvement of the Miyakoshi procedure. *Green Chemistry*, **2011**, 13, 2026	10	13
68	Selective nitroaldol condensations over heterogeneous catalysts in the presence of supercritical carbon dioxide. *Journal of Organic Chemistry*, **2008**, 73, 8520-8	4.2	13
67	Triphasic liquid systems: generation and segregation of catalytically active Pd nanoparticles in an ammonium-based catalyst-philic phase. *Chemical Communications*, **2006**, 4480-2	5.8	13
66	Process systems for the carbonate interchange reactions of DMC and alcohols: efficient synthesis of catechol carbonate. *Catalysis Science and Technology*, **2018**, 8, 1971-1980	5.5	12
65	Microwave-assisted methylation of dihydroxybenzene derivatives with dimethyl carbonate. *RSC Advances*, **2016**, 6, 58443-58451	3.7	12
64	Improved synthesis of tadalafil using dimethyl carbonate and ionic liquids. *RSC Advances*, **2014**, 4, 1204-1211	3.7	12
63	Methyltriphenylphosphonium Methylcarbonate, an All-In-One Wittig Vinylation Reagent. *ChemSusChem*, **2015**, 8, 3963-6	8.3	12
62	Hydrodechlorination and Hydrogenation over Raney® Ni under Multiphase Conditions: Role of Multiphase Environment in Reaction Kinetics and Selectivity. *Journal of Catalysis*, **2002**, 211, 347-354	7.3	12
61	Precursor-Dependent Photocatalytic Activity of Carbon Dots. *Molecules*, **2019**, 25,	4.8	12
60	Continuous-flow alkene metathesis: the model reaction of 1-octene catalyzed by Re2O7/γ-Al2O3 with supercritical CO2 as a carrier. *Green Chemistry*, **2012**, 14, 2727	10	11
59	The action of onium salts and other modifiers on Pt/C, Pd/C, and Raney® Ni catalysts in the multiphase reduction system. *Reactive and Functional Polymers*, **2003**, 54, 95-101	4.6	11
58	Nucleophilic displacements in supercritical carbon dioxide under phase-transfer catalysis conditions. 2. Effect of pressure and kinetics. *Journal of Organic Chemistry*, **2003**, 68, 4046-51	4.2	11

57	Continuous-Flow O-Alkylation of Biobased Derivatives with Dialkyl Carbonates in the Presence of Magnesium-Aluminium Hydrotalcites as Catalyst Precursors. *ChemSusChem*, **2017**, 10, 1571-1583	8.3	10
56	The synthesis of alkyl aryl nitriles from N-(1-arylalkylidene)cyanomethylamines. Part 2. Mechanism. *Perkin Transactions II RSC*, **2002**, 1033-1037		10
55	Synthesis of the Fatty Esters of Solketal and Glycerol-Formal: Biobased Specialty Chemicals. *Molecules*, **2016**, 21, 170	4.8	10
54	Luminescent dansyl-based ionic liquids from amino acids and methylcarbonate onium salt precursors: synthesis and photobehaviour. *Green Chemistry*, **2015**, 17, 538-550	10	9
53	Triphasic Liquid Systems for Improved Separations. Trioctylmethylammonium Chloride-Immobilised Rhodium Trichloride: A Phosphine-Free Hydroformylation Catalytic System. *Advanced Synthesis and Catalysis*, **2007**, 349, 1858-1862	5.6	9
52	Carbohydrates as Renewable Raw Materials: A Major Challenge of Green Chemistry23-63		9
51	Supercritical CO2 extraction of natural antibacterials from low value weeds and agro-waste. *Journal of CO2 Utilization*, **2020**, 40, 101198	7.6	8
50	Acid-Catalyzed Reactions of Isopropenyl Esters and Renewable Diols: A 100% Carbon Efficient Transesterification/Acetalization Tandem Sequence, from Batch to Continuous Flow. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18810-18818	8.3	8
49	Systems Thinking: Adopting an Emergy Perspective as a Tool for Teaching Green Chemistry. *Journal of Chemical Education*, **2019**, 96, 2784-2793	2.4	8
48	The metathesis of □olefins over supported Re-catalysts in supercritical CO2. *Green Chemistry*, **2009**, 11, 229-238	10	8
47	Kinetic parameter estimation of solvent-free reactions monitored by 13C NMR spectroscopy, a case study: Mono- and di-(hydroxy)ethylation of aniline with ethylene carbonate. *International Journal of Chemical Kinetics*, **2011**, 43, 154-160	1.4	7
46	Phosphonium nitrate ionic liquid catalysed electrophilic aromatic oxychlorination. *Green Chemistry*, **2010**, 12, 1654	10	7
45	Self-Metathesis of 1-Octene Using Alumina-Supported Re2O7 in Supercritical CO2. *Topics in Catalysis*, **2009**, 52, 315-321	2.3	7
44	The Oxidation of Isobutane to Methacrylic Acid: An Alternative Technology for MMA Production265-279		7
43	Carbon dots for cancer nanomedicine: a bright future. *Nanoscale Advances*, **2021**, 3, 5183-5221	5.1	7
42	Yttrium and lanthanide complexes of □dialdehydes: synthesis, characterization, luminescence and electrochemistry of coordination compounds with the conjugate base of bromomalonaldehyde. *Dalton Transactions*, **2014**, 43, 9303-12	4.3	6
41	Peptide anchored Langmuir**B**lodgett films of a fullerene amphiphile. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 190, 295-303	5.1	6
40	Tungstate ionic liquids as catalysts for CO2 fixation into epoxides. *Molecular Catalysis*, **2020**, 486, 110854	3.3	6

39	Towards life in hydrocarbons: aggregation behaviour of □everse□surfactants in cyclohexane. *RSC Advances*, **2017**, 7, 15337-15341	3.7	5
38	Dimethyl Carbonate as a Green Reagent77-102		5
37	Efficient synthesis of N-alkylformimidoyl cyanides. *Tetrahedron Letters*, **1999**, 40, 7573-7576	2	5
36	Advancements and Complexities in the Conversion of Lignocellulose Into Chemicals and Materials. *Frontiers in Chemistry*, **2020**, 8, 797	5	5
35	A transesterification□cetalization catalytic tandem process for the functionalization of glycerol: the pivotal role of isopropenyl acetate. *Green Chemistry*, **2020**, 22, 5487-5496	10	5
34	Biobased Carbon Dots: From Fish Scales to Photocatalysis. *Nanomaterials*, **2021**, 11,	5.4	5
33	Multiphase hydrodechlorination of polychlorinated aromatics - Towards scale-up. *Chemosphere*, **2017**, 173, 535-541	8.4	4
32	Chapter 4:Phosphonium salts and P-ylides. *Organophosphorus Chemistry*, **2015**, 136-169	3	4
31	A "by-productless" cellulose foaming agent for use in imidazolium ionic liquids. *Chemical Communications*, **2011**, 47, 2970-2	5.8	4
30	Organic Chemistry in Water: Green and Fast159-170		4
29	The synthesis of alkyl aryl nitriles from N-(1-arylalkylidene)cyanomethyl amines: some mechanistic conclusions. *Journal of the Chemical Society Perkin Transactions II*, **1999**, 2485-2492		4
28	One-Pot Tandem Catalytic Epoxidation□CO2 Insertion of Monounsaturated Methyl Oleate to the Corresponding Cyclic Organic Carbonate. *Catalysts*, **2021**, 11, 1477	4	4
27	Phosphonium salts and P-ylides. *Organophosphorus Chemistry*, **2016**, 132-169	3	4
26	Single-Step Methylation of Chitosan Using Dimethyl Carbonate as a Green Methylating Agent. *Molecules*, **2019**, 24,	4.8	4
25	Two-Step Synthesis of Dialkyl Carbonates through Transcarbonation and Disproportionation Reactions Catalyzed by Calcined Hydrotalcites. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9488-9497	8.3	4
24	Green Chemistry: Catalysis and Waste Minimization189-199		3
23	Metal Nanoparticles Stabilized in Ionic Liquids for Catalytic Multiphase Reactions. *Current Organic Chemistry*, **2017**, 21,	1.7	3
22	Chapter 3:Phosphonium salts and P-ylides. *Organophosphorus Chemistry*, **2014**, 85-116	3	3

21	Diethylene Glycol/NaBr Catalyzed CO2 Insertion into Terminal Epoxides: From Batch to Continuous Flow. *ChemCatChem*, **2021**, 13, 2005-2016	5.2	3
20	Reaction of Glycerol with Trimethyl Orthoformate: Towards the Synthesis of New Glycerol Derivatives. *Catalysts*, **2019**, 9, 534	4	2
19	The Four-Component Reaction and Other Multicomponent Reactions of the Isocyanides1-22		2
18	Carbon-supported WOxRu-based catalysts for the selective hydrogenolysis of glycerol to 1,2-propanediol. *Catalysis Science and Technology*, **2022**, 12, 259-272	5.5	2
17	Direct oxidative carboxylation of terminal olefins to cyclic carbonates by tungstate assisted-tandem catalysis. *Green Chemistry*,	10	2
16	Ionic liquid mediated deposition of ruthenium mirrors on glass under multiphase conditions. *New Journal of Chemistry*, **2016**, 40, 1948-1952	3.6	1
15	Changing the Action of Iron from Stoichiometric to Electrocatalytic in the Hydrogenation of Ketones in Aqueous Acidic Media. *ChemSusChem*, **2015**, 8, 3712-7	8.3	1
14	Seamless Chemistry for Sustainability201-217		1
13	Biocatalysis for Industrial Green Chemistry281-298		1
12	Concatenated Batch and Continuous Flow Procedures for the Upgrading of Glycerol-Derived Aminodiols via N-Acetylation and Acetalization Reactions. *Catalysts*, **2021**, 11, 21	4	1
11	Dimethylcarbonate for the Catalytic Upgrading of Amines and Bio-Based Derivatives **2016**, 1-11		1
10	Diversified upgrading of HMF via acetylation, aldol condensation, carboxymethylation, vinylation and reductive amination reactions. *Molecular Catalysis*, **2021**, 514, 111838	3.3	1
9	Multiphase Hydrogenation of d-Glucosamine Hydrochloride, N-Acetyl-d-Glucosamine, d-Glucose, and d-Maltose over Ru/C with Integrated Catalyst Recovery. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2844-2858	8.3	1
8	Enantioselective Metal Catalyzed Oxidation Processes219-229		0
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6	Zeolite Catalysts for Cleaner Technologies231-249		0
5	Photoinitiated Synthesis: A Useful Perspective in Green Chemistry65-75		0
4	N-Doped Carbon Dot Hydrogels from Brewing Waste for Photocatalytic Wastewater Treatment.. *ACS Omega*, **2022**, 7, 4052-4061	3.9	0

3	Dimethylcarbonate-Assisted Ring-Opening of Biobased Valerolactones with Methanol. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 6193-6199	8.3
2	Acid and Superacid Solid Materials as Noncontaminant Alternative Catalysts in Refining251-263	
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