

# Andrea Porcheddu

## List of Publications by Year in descending order

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119  
papers

4,397  
citations

87723

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128067

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162  
all docs

162  
docs citations

162  
times ranked

4361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beckmann Rearrangement of Oximes under Very Mild Conditions. <i>Journal of Organic Chemistry</i> , 2002, 67, 6272-6274.	1.7	228
2	A Very Mild and Chemoselective Oxidation of Alcohols to Carbonyl Compounds. <i>Organic Letters</i> , 2001, 3, 3041-3043.	2.4	213
3	Metal-Mediated and Metal-Catalyzed Reactions Under Mechanochemical Conditions. <i>ACS Catalysis</i> , 2020, 10, 8344-8394.	5.5	188
4	Trichloroisocyanuric/TEMPO Oxidation of Alcohols under Mild Conditions: A Close Investigation. <i>Journal of Organic Chemistry</i> , 2003, 68, 4999-5001.	1.7	137
5	An Efficient Route to Alkyl Chlorides from Alcohols Using the Complex TCT/DMF. <i>Organic Letters</i> , 2002, 4, 553-555.	2.4	119
6	Some Recent Approaches to the Synthesis of 2-Substituted Benzofurans. <i>Current Medicinal Chemistry</i> , 2009, 16, 1-20.	1.2	108
7	One-Pot Synthesis of Amides from Aldehydes and Amines via C-H Bond Activation. <i>Organic Letters</i> , 2012, 14, 5014-5017.	2.4	106
8	A Mild and Efficient Alternative to the Classical Swern Oxidation. <i>Journal of Organic Chemistry</i> , 2001, 66, 7907-7909.	1.7	99
9	[1,3,5]-Triazine: A Versatile Heterocycle in Current Applications of Organic Chemistry. <i>Current Organic Chemistry</i> , 2004, 8, 1497-1519.	0.9	99
10	Mild reduction of carboxylic acids to alcohols using cyanuric chloride and sodium borohydride. <i>Tetrahedron Letters</i> , 1999, 40, 4395-4396.	0.7	94
11	Formic Acid: A Promising Bio-Renewable Feedstock for Fine Chemicals. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3180-3186.	2.1	84
12	Simple One-Flask Method for the Preparation of Hydroxamic Acids. <i>Organic Letters</i> , 2003, 5, 2715-2717.	2.4	83
13	From enabling technologies to medicinal mechanochemistry: an eco-friendly access to hydantoin-based active pharmaceutical ingredients. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1179-1188.	1.9	81
14	Microwave-Assisted Synthesis of Isonitriles: A General Simple Methodology. <i>Journal of Organic Chemistry</i> , 2005, 70, 2361-2363.	1.7	78
15	Mechanochemistry for $\alpha$ -ceno solvent, no base-preparation of hydantoin-based active pharmaceutical ingredients: nitrofurantoin and dantrolene. <i>Green Chemistry</i> , 2018, 20, 2973-2977.	4.6	78
16	Peptide Nucleic Acids (PNAs), A Chemical Overview. <i>Current Medicinal Chemistry</i> , 2005, 12, 2561-2599.	1.2	75
17	From Alcohols to Indoles: A Tandem Ru Catalyzed Hydrogen-Transfer Fischer Indole Synthesis. <i>Organic Letters</i> , 2012, 14, 6112-6115.	2.4	75
18	4-(4,6-Dimethoxy[1,3,5]triazin-2-yl)-4-methyl-morpholinium Chloride (DMTMM): A Valuable Alternative to PyBOP for Solid Phase Peptide Synthesis. <i>Synlett</i> , 2000, 2000, 275-277.	1.0	73

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19	Iron-catalysed oxidative amidation of alcohols with amines. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3803.	1.5	72
20	Solvent-Free, Continuous Synthesis of Hydrazone-Based Active Pharmaceutical Ingredients by Twin-Screw Extrusion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12230-12238.	3.2	71
21	Cellulose Beads: a New Versatile Solid Support for Microwave-Assisted Synthesis. Preparation of Pyrazole and Isoxazole Libraries. <i>ACS Combinatorial Science</i> , 2003, 5, 465-471.	3.3	70
22	Processing and Investigation Methods in Mechanochemical Kinetics. <i>ACS Omega</i> , 2018, 3, 9196-9209.	1.6	70
23	A Simple Method for the Reduction of Carboxylic Acids to Aldehydes or Alcohols Using H <sub>2</sub> and Pd/C. <i>Journal of Organic Chemistry</i> , 1999, 64, 8962-8964.	1.7	61
24	A Simple Preparation of Ketones. N-Protected $\alpha$ -Amino Ketones from $\alpha$ -Amino Acids. <i>Organic Letters</i> , 2001, 3, 1519-1521.	2.4	61
25	Metal-Free Direct Oxidation of Aldehydes to Esters Using TCCA. <i>Organic Letters</i> , 2015, 17, 3666-3669.	2.4	59
26	Colorimetric Tools for Solid-Phase Organic Synthesis. <i>ACS Combinatorial Science</i> , 2004, 6, 805-810.	3.3	58
27	Mechanochemical Rearrangements. <i>Journal of Organic Chemistry</i> , 2021, 86, 13885-13894.	1.7	57
28	Mechanochemistry Can Reduce Life Cycle Environmental Impacts of Manufacturing Active Pharmaceutical Ingredients. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1430-1439.	3.2	54
29	A method for generating nitrile oxides from nitroalkanes: a microwave assisted route for isoxazoles. <i>Tetrahedron</i> , 2003, 59, 5437-5440.	1.0	52
30	A Practical and Efficient Approach to PNA Monomers Compatible with Fmoc-Mediated Solid-Phase Synthesis Protocols. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5786-5797.	1.2	52
31	Trichloroisocyanuric Acid: a Versatile and Efficient Chlorinating and Oxidizing Reagent. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3544-3552.	1.2	50
32	Iron-Catalyzed Amidation of Aldehydes with <i>N</i> -Chloroamines. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2949-2953.	2.1	46
33	Angeli-Rimini's Reaction on Solid Support: A New Approach to Hydroxamic Acids. <i>Journal of Organic Chemistry</i> , 2006, 71, 7057-7059.	1.7	45
34	Mild and Highly Selective Formyl Protection of Primary Hydroxyl Groups. <i>Journal of Organic Chemistry</i> , 2002, 67, 5152-5155.	1.7	44
35	Microwave-Promoted Selective Mono-N-Alkylation of Anilines with Tertiary Amines by Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2011, 17, 82-85.	1.7	42
36	Recent developments in oxidative esterification and amidation of aldehydes. <i>Tetrahedron Letters</i> , 2016, 57, 3433-3440.	0.7	42

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37	A General Approach to Substituted Benzimidazoles and Benzoxazoles <i>via</i> Heterogeneous Palladium-Catalyzed Hydrogen-Transfer with Primary Amines. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2453-2464.	2.1	41
38	Synthesis of Quinolines <i>via</i> a Metal-Catalyzed Dehydrogenative <i>N</i> -Heterocyclization. <i>Chemical Record</i> , 2017, 17, 200-216.	2.9	40
39	Kinetics of mechanochemical transformations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14489-14502.	1.3	39
40	Microwave-Assisted Solution-Phase Synthesis of 1,4,5-Trisubstituted Pyrazoles. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 537-541.	1.2	38
41	A "Catch and Release" Strategy for the Parallel Synthesis of 2,4,5-Trisubstituted Pyrimidines. <i>ACS Combinatorial Science</i> , 2004, 6, 105-111.	3.3	38
42	Synthesis of $\alpha,\beta$ -Unsaturated Aldehydes Based on a One-Pot Phase-Switch Dehydrogenative Cross-Coupling of Primary Alcohols. <i>Organic Letters</i> , 2014, 16, 2586-2589.	2.4	38
43	Mechanochemical Preparation of Active Pharmaceutical Ingredients Monitored by <i>In Situ</i> Raman Spectroscopy. <i>ACS Omega</i> , 2020, 5, 28663-28672.	1.6	38
44	A New Polymer-Supported Reagent for the Synthesis of $\beta$ -Lactams in Solution. <i>Journal of Organic Chemistry</i> , 2004, 69, 9316-9318.	1.7	37
45	Microwave-Assisted Synthesis of Polysubstituted Benzimidazoles by Heterogeneous Pd-Catalyzed Oxidative C-H Activation of Tertiary Amines. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5791-5795.	1.2	35
46	The Mechanochemical Beckmann Rearrangement: An Eco-efficient "Cut-and-Paste" Strategy to Design the "Good Old Amide Bond". <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2100-2114.	3.2	35
47	Metal-Free Oxidative Cross Esterification of Alcohols <i>via</i> Acyl Chloride Formation. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 154-158.	2.1	32
48	Simple squaramide receptors for highly efficient anion binding in aqueous media and transmembrane transport. <i>Chemical Communications</i> , 2020, 56, 11066-11069.	2.2	32
49	New Oxazole-Based Conformationally Restricted Peptidomimetics: Design and Synthesis of Pseudopeptides. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 3217-3222.	1.2	30
50	High throughput mechanochemistry: application to parallel synthesis of benzoxazines. <i>Chemical Communications</i> , 2018, 54, 551-554.	2.2	30
51	A Metal-Catalyzed Tandem 1,4-Benzodiazepine Synthesis Based on Two Hydrogen-Transfer Reactions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1068-1074.	1.2	29
52	A copper-catalysed amidation of aldehydes <i>via</i> N-hydroxysuccinimide ester formation. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 8241.	1.5	28
53	Small Ring Constrained Peptidomimetics. Synthesis of Epoxy Peptidomimetics, Inhibitors of Cysteine Proteases. <i>Journal of Organic Chemistry</i> , 2001, 66, 697-706.	1.7	26
54	A Straightforward Route to Piloty's Acid Derivatives: A Class of Potential Nitroxyl-Generating Prodrugs. <i>Synlett</i> , 2009, 2009, 2149-2153.	1.0	26

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55	New Cellulose-Supported Reagent: A Sustainable Approach to Guanidines. <i>Organic Letters</i> , 2004, 6, 4925-4927.	2.4	25
56	An Environmentally Sustainable Mechanochemical Route to Hydroxamic Acid Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3135-3144.	2.1	25
57	Visible light-induced transformation of aldehydes to esters, carboxylic anhydrides and amides. <i>New Journal of Chemistry</i> , 2019, 43, 10711-10715.	1.4	25
58	Mechanically induced oxidation of alcohols to aldehydes and ketones in ambient air: Revisiting TEMPO-assisted oxidations. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2049-2055.	1.3	24
59	Base-Mediated Transition-Metal-Free Dehydrative C-C and C-N Bond-Forming Reactions from Alcohols. <i>Chemical Record</i> , 2019, 19, 2398-2435.	2.9	24
60	Synthesis of 1-Alkyl-4-imidazolecarboxylates: A Catch and Release Strategy. <i>ACS Combinatorial Science</i> , 2005, 7, 905-908.	3.3	23
61	A Mechanochemical-Assisted Oxidation of Amines to Carbonyl Compounds and Nitriles. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5519-5526.	1.2	23
62	A fast and efficient one-pot microwave assisted synthesis of variously di-substituted 1,2,4-oxadiazoles. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7539.	1.5	22
63	New pyrazole containing bicarboxylic $\alpha$ -amino acids: mimics of the cis amide bond. <i>Tetrahedron Letters</i> , 1999, 40, 8701-8704.	0.7	19
64	Parallel Synthesis of Trisubstituted Formamidines: A Facile and Versatile Procedure. <i>ACS Combinatorial Science</i> , 2009, 11, 126-130.	3.3	19
65	Palladium-Catalysed Dehydrogenative Generation of Imines from Amines. A Nature-Inspired Route to Indoles via Cross-Couplings of Amines with Arylhydrazines. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3002-3013.	2.1	19
66	Visible-Light Photoredox-Catalyzed Amidation of Benzylic Alcohols. <i>Journal of Organic Chemistry</i> , 2020, 85, 11679-11687.	1.7	19
67	New 1,3,5-triazine derivatives as templates for the homogeneous phase synthesis of chemical libraries. <i>Tetrahedron Letters</i> , 1998, 39, 7607-7610.	0.7	18
68	Vibrational and optical characterization of s-triazine derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 348-355.	2.0	18
69	Metal-Free Preparation of $\alpha$ -Chlorinated Alkylaromatic Hydrocarbons by Sunlight. <i>ChemistrySelect</i> , 2018, 3, 7991-7995.	0.7	18
70	Kabachnik-Fields Reaction by Mechanochemistry: New Horizons from Old Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18889-18902.	3.2	18
71	A New, Rapid, General Procedure for the Synthesis of Organic Molecules Supported on Methoxy-Polyethylene Glycol (MeOPEG) under Microwave Irradiation Conditions. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 907-912.	1.2	17
72	A Mild and Inexpensive Procedure for the Synthesis of N,N <sup>2</sup> -Di-Boc-Protected Guanidines. <i>Synlett</i> , 2009, 2009, 3368-3372.	1.0	17

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73	Microwave-Assisted Synthesis of N-Monosubstituted Urea Derivatives. <i>Synlett</i> , 2010, 2010, 2439-2442.	1.0	17
74	Ball-milling and cheap reagents breathe green life into the one hundred-year-old Hofmann reaction. <i>Organic Chemistry Frontiers</i> , 2018, 5, 531-538.	2.3	17
75	One-Pot Synthesis of Hydroxamic Acids from Aldehydes and Hydroxylamine. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2709-2713.	2.1	16
76	A Mild and Efficient Synthesis of Substituted Quinolines via a Cross-Dehydrogenative Coupling of (Bio)available Alcohols and Aminoarenes. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 576-582.	2.1	16
77	Metal-free mechanochemical oxidations in Ertalyte jars. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1786-1794.	1.3	16
78	Solvent-free Reactions for the Synthesis of Indolenine-based Squaraines and Croconaines: Comparison of Thermal Heating, Mechanochemical Milling, and IR Irradiation. <i>ChemSusChem</i> , 2021, 14, 1363-1369.	3.6	16
79	Coupling of mechanical deformation and reaction in mechanochemical transformations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 229-245.	1.3	15
80	Anhydrides from aldehydes or alcohols via oxidative cross-coupling. <i>New Journal of Chemistry</i> , 2017, 41, 931-939.	1.4	14
81	1,3,5-Triazines. , 2008, , 197-290.		13
82	New Pentamidine Analogues in Medicinal Chemistry. <i>Current Medicinal Chemistry</i> , 2012, 19, 5819-5836.	1.2	13
83	A telescopic one-pot synthesis of $\beta^2$ -lactam rings using amines as a convenient source of imines. <i>RSC Advances</i> , 2016, 6, 38553-38557.	1.7	13
84	Kinetics of MgH <sub>2</sub> formation by ball milling. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 967-973.	3.8	13
85	Mechanochemical Fischer indolisation: an eco-friendly design for a timeless reaction. <i>Green Chemistry</i> , 2022, 24, 4859-4869.	4.6	13
86	Synthesis of (2R, 5S)- and (2S, 5S)-2-carboxy-1,4-diaza-[4.3.0]bicyclononane as building blocks for the synthesis of new potential HIV protease inhibitors. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 1999-2005.	1.8	12
87	General approach to the synthesis of optically active 2-carboxy-4-[ $\alpha^2$ -(diethoxyphosphinyl)propyl]-5-alkylperazines (CCP analogues). <i>Tetrahedron: Asymmetry</i> , 1997, 8, 1633-1639.	1.8	12
88	Solution-Phase Synthesis of Mixed Amide Libraries by Simultaneous Addition of Functionalities (SPSAF) to a Diketopiperazine Tetracarboxylic Acid Scaffold Monitored by GC Analysis of Isobutyl Alcohol. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 1669-1675.	1.2	12
89	Synthesis of Optically Active $\beta^1$ -Amino Acids Containing Pyrazolyl Ring as Substituent. <i>Synthesis</i> , 2000, 2000, 1295-1298.	1.2	12
90	Use of Primary Amines for the Selective N-Alkylation of Anilines by a Reusable Heterogeneous Catalyst. <i>Synlett</i> , 2013, 24, 2249-2254.	1.0	12

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91	From Lossen Transposition to Solventless "Medicinal Mechanochemistry" ACS Sustainable Chemistry and Engineering, 0, , .	3.2	12
92	Influence of the milling parameters on the nucleophilic substitution reaction of activated $\beta$ -cyclodextrins. Beilstein Journal of Organic Chemistry, 2017, 13, 1893-1899.	1.3	11
93	Appealing Renewable Materials in Green Chemistry. Molecules, 2022, 27, 1988.	1.7	11
94	A two-step tandem reaction to prepare hydroxamic acids directly from alcohols. Organic and Biomolecular Chemistry, 2014, 12, 4582.	1.5	10
95	A New, Simple Procedure for the Synthesis of Formyl Amides. Synlett, 2004, 2004, 2570-2572.	1.0	9
96	Adsorption and Release of Sulfamethizole from Mesoporous Silica Nanoparticles Functionalised with Triethylenetetramine. International Journal of Molecular Sciences, 2021, 22, 7665.	1.8	9
97	A phenomenological kinetic equation for mechanochemical reactions involving highly deformable molecular solids. Physical Chemistry Chemical Physics, 2021, 23, 14178-14194.	1.3	9
98	Preparation of pyrazole and isoxazole libraries on cellulose beads: a new cheap and versatile biopolymer. Comptes Rendus Chimie, 2003, 6, 607-611.	0.2	8
99	A Mild Procedure for the Preparation of 3-Aryl-4-formylpyrazoles. Synlett, 2004, 2004, 2299-2302.	1.0	8
100	"Quick and click" assembly of functionalised indole rings via metal-promoted cyclative tandem reactions. RSC Advances, 2014, 4, 59297-59301.	1.7	6
101	Surface-modified nanoerythrocytes for potential optical imaging diagnostics. Journal of Colloid and Interface Science, 2021, 582, 246-253.	5.0	6
102	Metal-free oxidative self-coupling of aldehydes or alcohols to symmetric carboxylic anhydrides. Tetrahedron Letters, 2017, 58, 2533-2536.	0.7	5
103	Synthesis of Nitric Oxide Donors Derived from Piloty's Acid and Study of Their Effects on Dopamine Secretion from PC12 Cells. Pharmaceuticals, 2017, 10, 74.	1.7	5
104	Microscopic kinetic information from Ag oxalate mechanochemistry in ball drop experiments. Materials Letters, 2020, 267, 127525.	1.3	5
105	Mechanochemical Preparation of Protein:Hydantoin Hybrids and their Release Properties. ChemSusChem, 2021, , .	3.6	5
106	A trustworthy mechanochemical route to isocyanides. Beilstein Journal of Organic Chemistry, 0, 18, 732-737.	1.3	5
107	1 Mechanochemistry: an overview and a historical account. , 2020, , 1-8.		1
108	Mechanochemical Ignition of Self-propagating Reactions in Zn-S Powder Mixtures. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 830-839.	1.0	1

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109	Mild and Highly Selective Formyl Protection of Primary Hydroxyl Groups.. ChemInform, 2003, 34, no.	0.1	0
110	Beckmann Rearrangement of Oximes under Very Mild Conditions.. ChemInform, 2003, 34, no.	0.1	0
111	Microwave-Assisted Solution-Phase Synthesis of 1,4,5-Trisubstituted Pyrazoles.. ChemInform, 2003, 34, no.	0.1	0
112	Trichloroisocyanuric Acid/TEMPO Oxidation of Alcohols under Mild Conditions: A Close Investigation.. ChemInform, 2003, 34, no.	0.1	0
113	A Method for Generating Nitrile Oxides from Nitroalkanes: A Microwave Assisted Route for Isoxazoles.. ChemInform, 2003, 34, no.	0.1	0
114	Colorimetric Tools for Solid-Phase Organic Synthesis. ChemInform, 2004, 35, no.	0.1	0
115	A New Polymer-Supported Reagent for the Synthesis of $\beta$ -Lactams in Solution.. ChemInform, 2005, 36, no.	0.1	0
116	1,3,5-Triazine: A Versatile Heterocycle in Current Applications of Organic Chemistry. ChemInform, 2005, 36, no.	0.1	0
117	Microwave-Assisted Synthesis of Isonitriles: A General Simple Methodology.. ChemInform, 2005, 36, no.	0.1	0
118	Front Cover: A Mechanochemical-Assisted Oxidation of Amines to Carbonyl Compounds and Nitriles (Eur. J. Org. Chem. 37/2017). European Journal of Organic Chemistry, 2017, 2017, 5421-5421.	1.2	0
119	From solution-based nonconventional activation methods to mechanochemical procedures: The hydantoin case. , 2021, , 421-452.		0