Arianna Quintavalla

List of Publications by Year
in descending order

61 papers	1,346 citations	257450 24 h-index	377865 34 g-index
73 all docs	73 docs citations	73 times ranked	1648 citing authors

#	Article	IF	Citations
1	4-Alkylidene-azetidin-2-ones: novel inhibitors of leukocyte elastase and gelatinase. Bioorganic and Medicinal Chemistry, 2003, 11, 5391-5399.	3.0	71
2	Highly Efficient Ionâ€Tagged Catalyst for the Enantioselective Michael Addition of Aldehydes to Nitroalkenes. Advanced Synthesis and Catalysis, 2009, 351, 2801-2806.	4.3	64
3	Chemoenzymatic synthesis of (2S)-2-arylpropanols through a dynamic kinetic resolution of 2-arylpropanals with alcohol dehydrogenases. Organic and Biomolecular Chemistry, 2010, 8, 4117.	2.8	60
4	Design, Synthesis, and Biological Evaluation of 4-Alkyliden-beta Lactams:â€‰ New Products with Promising Antibiotic Activity Against Resistant Bacteria. Journal of Medicinal Chemistry, 2006, 49, 2804-2811.	6.4	57
5	Highly efficient asymmetric reduction of arylpropionic aldehydes by Horse Liver Alcohol Dehydrogenase through dynamic kinetic resolution. Chemical Communications, 2007, , 4038.	4.1	57
6	Spirolactones: Recent Advances in Natural Products, Bioactive Compounds and Synthetic Strategies. Current Medicinal Chemistry, 2018, 25, 917-962.	2.4	57
7	Azetidinones as Zincâ€Binding Groups to Design Selective HDAC8 Inhibitors. ChemMedChem, 2009, 4, 1991-2001.	3.2	49
8	Highly Stereoselective [4+2] and [3+2] Spiroannulations of 2â€(2â€Oxoindolinâ€3â€ylidene)acetic Esters Catalyzed by Bifunctional Thioureas. Chemistry - A European Journal, 2015, 21, 11038-11049.	3.3	43
9	A Liquidâ€“Liquid Biphasic Homogeneous Organocatalytic Aldol Protocol Based on the Use of a Silica Gel Bound Multilayered Ionic Liquid Phase. ChemCatChem, 2012, 4, 1000-1006.	3.7	42
10	A simple smartphone-based thermochemiluminescent immunosensor for valproic acid detection using 1,2-dioxetane analogue-doped nanoparticles as a label. Sensors and Actuators B: Chemical, 2019, 279, 327-333.	7.8	37
11	4-Alkyliden-Î²-lactams conjugated to polyphenols: Synthesis and inhibitory activity. Bioorganic and Medicinal Chemistry, 2005, 13, 6120-6132.	3.0	36
12	The First Enantioselective Organocatalytic Synthesis of 3â€Spiroâ€Î±â€Alkylideneâ€Î³â€Butyrolactone Oxindoles. Chemistry - A European Journal, 2016, 22, 3865-3872.	3.3	36
13	Organocatalytic Conjugate Addition of Nitroalkanes to 3-Ylidene Oxindoles: A Stereocontrolled Diversity Oriented Route to Oxindole Derivatives. Journal of Organic Chemistry, 2013, 78, 12049-12064.	3.2	35
14	Goldâ€Catalyzed Allylation Reactions. ChemCatChem, 2016, 8, 1437-1453.	3.7	34
15	Synthesis of Novel 4-(2-Oxoethylidene)azetidin-2-ones by a Lewis Acid Mediated Reaction of Acyldiazo Compounds. European Journal of Organic Chemistry, 2003, 2003, 1765-1774.	2.4	32
16	Chemo- and Enzyme-Catalyzed Reactions Revealing a Common Temperature-Dependent Dynamic Solvent Effect on Enantioselectivity. Helvetica Chimica Acta, 2003, 86, 3548-3559.	1.6	31
17	A New Henry/Michael/Retroâ€Henry/Henry Domino Sequence Promoted by Bifunctional Organocatalysts. Advanced Synthesis and Catalysis, 2013, 355, 938-946.	4.3	31
18	Synthesis of 1,2â€Dioxetanes as Thermochemiluminescent Labels for Ultrasensitive Bioassays: Rational Prediction of Olefin Photooxygenation Outcome by Using a Chemometric Approach. Chemistry - A European Journal, 2016, 22, 18156-18168.	3.3	30

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19	A New Robust and Efficient Ionâ€Tagged Proline Catalyst Carrying an Amide Spacer for the Asymmetric Aldol Reaction. Advanced Synthesis and Catalysis, 2011, 353, 3234-3240.	4.3	27
20	Dioxetane-Doped Silica Nanoparticles as Ultrasensitive Reagentless Thermochemiluminescent Labels for Bioanalytics. Analytical Chemistry, 2012, 84, 9913-9919.	6.5	27
21	Organically modified silica nanoparticles doped with new acridine-1,2-dioxetane analogues as thermochemiluminescence reagentless labels for ultrasensitive immunoassays. Analytical and Bioanalytical Chemistry, 2015, 407, 1567-1576.	3.7	27
22	Multiphase Homogeneous Catalysis: Common Procedures and Recent Applications. Synlett, 2010, 2010, 1746-1765.	1.8	26
23	Enantioselective Conjugate Addition of Nitroalkanes to Alkylidenemalonates Promoted by Thioureaâ€Based Bifunctional Organocatalysts. Advanced Synthesis and Catalysis, 2012, 354, 364-370.	4.3	26
24	Preparation and Characterization of Thermochemiluminescent Acridine-Containing 1,2-Dioxetanes as Promising Ultrasensitive Labels in Bioanalysis. Journal of Organic Chemistry, 2013, 78, 11238-11246.	3.2	24
25	Inhibition of Leukocyte Elastase, Polymorphonuclear Chemoinvasion, and Inflammation-Triggered Pulmonary Fibrosis by a 4-Alkyliden-Î²-lactam with a Galloyl Moiety. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 539-546.	2.5	21
26	Enantioselective Desymmetrizations Promoted by Bifunctional Organocatalysts. Current Organocatalysis, 2014, 1, 107-171.	0.5	20
27	Titanium-catalyzed Reformatsky-type reaction. Journal of Organometallic Chemistry, 2007, 692, 3191-3197.	1.8	17
28	A New Class of Antimalarial Dioxanes Obtained through a Simple Two-Step Synthetic Approach: Rational Design and Structureâ€“Activity Relationship Studies. Journal of Medicinal Chemistry, 2011, 54, 8526-8540.	6.4	17
29	Antibacterial Agents and Cystic Fibrosis: Synthesis and Antimicrobial Evaluation of a Series of Nâ€Thiomethylazetidinones. ChemMedChem, 2011, 6, 1919-1927.	3.2	17
30	Synthesis of novel 4-(1-ethoxycarbonyl-methylidene)-azetidin-2-ones via a Lewis acid-catalyzed reaction of ethyl diazoacetate. Tetrahedron Letters, 2002, 43, 233-235.	1.4	16
31	N-Acylation of 4-alkylidene-Î²-lactams: unexpected results. Tetrahedron Letters, 2003, 44, 6269-6272.	1.4	16
32	A New Family of Conformationally Constrained Bicyclic Diarylprolinol Silyl Ethers as Organocatalysts. Advanced Synthesis and Catalysis, 2012, 354, 3428-3434.	4.3	15
33	Optimized Synthesis and Antimalarial Activity of 1,2â€Dioxaneâ€4â€carboxamides. European Journal of Organic Chemistry, 2014, 2014, 1607-1614.	2.4	15
34	Toward Novel Glyconjugates: Efficient Synthesis of Glycosylated 4-Alkylidene--lactams. European Journal of Organic Chemistry, 2006, 2006, 69-73.	2.4	14
35	The Organocatalytic Î±â€Fluorination of Chiral Î³â€Nitroaldehydes: the Challenge of Facing the Construction of a Quaternary Fluorinated Stereocenter. European Journal of Organic Chemistry, 2016, 2016, 3223-3232.	2.4	13
36	The interaction of heme with plakortin and a synthetic endoperoxide analogue: new insights into the heme-activated antimalarial mechanism. Scientific Reports, 2017, 7, 45485.	3.3	13

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37	Thermochemiluminescent semiconducting polymer dots as sensitive nanoprobes for reagentless immunoassay. Nanoscale, 2018, 10, 14012-14021.	5.6	13
38	Chemodivergent Photocatalytic Synthesis of Dihydrofurans and Î²,Î³â€Unsaturated Ketones. Advanced Synthesis and Catalysis, 2021, 363, 3267-3282.	4.3	13
39	Chiral aldehydes in hydrocarbons: diastereoselective nucleophilic addition, NMR, and CD spectroscopy reveal dynamic solvation effects. Chirality, 2004, 16, 50-56.	2.6	12
40	Synthesis of the Mannopeptimycin Disaccharide and Its Conjugation with 4â€Alkylideneâ€Î²â€lactams. European Journal of Organic Chemistry, 2008, 2008, 2895-2899.	2.4	12
41	Further optimization of plakortin pharmacophore: Structurally simple 4-oxymethyl-1,2-dioxanes with promising antimalarial activity. European Journal of Medicinal Chemistry, 2013, 70, 875-886.	5.5	12
42	A Recyclable Chiral 2â€(Triphenylmethyl)pyrrolidine Organocatalyst Anchored to [60]Fullerene. Advanced Synthesis and Catalysis, 2019, 361, 2936-2944.	4.3	12
43	Evaluation of the Pharmacophoric Role of the Oâ€“O Bond in Synthetic Antileishmanial Compounds: Comparison between 1,2-Dioxanes and Tetrahydropyrans. Journal of Medicinal Chemistry, 2020, 63, 13140-13158.	6.4	12
44	A Simple and Efficient Protocol for Proline-Catalysed Asymmetric Aldol Reaction. Catalysts, 2020, 10, 649.	3.5	12
45	Solvent and Temperature Effects on Diastereofacial Selectivity: Amines as Co-Solvents in n-Butyllithium Addition to Î±-Chiral Aldehydes. European Journal of Organic Chemistry, 2003, 2003, 1993-2000.	2.4	11
46	Diastereoselectivity in the Allylation of N-Trialkylsilylimines of O-Protected (2S)-Lactal â^' Some Unexpected Results. European Journal of Organic Chemistry, 2002, 2002, 3153-3161.	2.4	9
47	Halodecarboxylation Reaction of 4â€Alkylideneâ€Î²â€lactams. European Journal of Organic Chemistry, 2009, 2009, 4541-4547.	2.4	9
48	2-Azetidinones: synthesis of new bis(indolyl)butyl-Î²-lactams. New Journal of Chemistry, 2010, 34, 2861.	2.8	9
49	Electrosteric Activation by using Ionâ€Tagged Prolines: A Combined Experimental and Computational Investigation. ChemCatChem, 2013, 5, 2913-2924.	3.7	9
50	Vinylic Halogenation in 4-Alkylidenazetidin-2-ones. European Journal of Organic Chemistry, 2007, 2007, 2526-2533.	2.4	7
51	Allenamides Playing Domino: A Redoxâ€Neutral Photocatalytic Synthesis of Functionalized 2â€Aminofurans. Advanced Synthesis and Catalysis, 2022, 364, 362-371.	4.3	7
52	Dynamic solvation effects on the endo/exo selectivity of the Dielsâ€“Alder reaction. Tetrahedron Letters, 2003, 44, 93-96.	1.4	6
53	Solvation-dependent diastereofacial selectivity: addition of lithioacetonitrile to 2-phenyl propanal. Tetrahedron, 2005, 61, 69-75.	1.9	6
54	Inhibitory effect by new monocyclic 4-alkyliden-beta-lactam compounds on human platelet activation. Platelets, 2007, 18, 357-364.	2.3	6

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55	Properties and Reactivity of Conformationally Constrained Bicyclic Diarylprolinol Silyl Ethers as Organocatalysts. European Journal of Organic Chemistry, 2014, 2014, 5946-5953.	2.4	6
56	A supramolecular bifunctional iridium photoaminocatalyst for the enantioselective alkylation of aldehydes. Dalton Transactions, 2020, 49, 14497-14505.	3.3	4
57	Thermochemiluminescenceâ€Based Sensitive Probes: Synthesis and Photophysical Characterization of Acridineâ€Containing 1,2â€Dioxetanes Focusing on Fluorophore Pushâ€Pull Effects. ChemPhotoChem, 2022, 6, .	3.0	2
58	Multidecagram Scale Synthesis of an Endoperoxide, Precursor of Anti-malarial and Anti-leishmanial Agents, via Free-Radical [2 + 2 + 2] Annulation with Molecular Oxygen. Organic Process Research and Development, 2021, 25, 2718-2729.	2.7	2
59	Diastereoselective Synthesis of Chiral Oxathiazine 2â€Oxide Scaffolds as Sulfinyl Transfer Agents. Advanced Synthesis and Catalysis, 0, , .	4.3	2
60	Dynamic Solvation Effects on the endo/exo Selectivity of the Dielsâ€"Alder Reaction.. ChemInform, 2003, 34, no.	0.0	0
61	N-Acylation of 4-Alkylidene-Î²-lactams: Unexpected Results.. ChemInform, 2003, 34, no.	0.0	0