

# Anthony J Burke

## List of Publications by Year in descending order

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102  
papers

2,205  
citations

279798

23  
h-index

289244

40  
g-index

157  
all docs

157  
docs citations

157  
times ranked

2409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Asymmetric Hydrogenation Catalysis Utilizing Spiro and Other Rigid C-Stereogenic Phosphine Ligands. <i>Journal of Organic Chemistry</i> , 2022, 87, 1898-1924.	3.2	10
2	Tryptanthrin and Its Derivatives in Drug Discovery: Synthetic Insights. <i>Synthesis</i> , 2022, 54, 4235-4245.	2.3	4
3	Evaluation of chromane derivatives: Promising privileged scaffolds for lead discovery within Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 68, 116807.	3.0	5
4	1,2,3-Triazole-isatin derivatives: anti-proliferation effects and target identification in solid tumour cell lines. <i>RSC Medicinal Chemistry</i> , 2022, 13, 970-977.	3.9	6
5	Synthesis and Antiproliferative Activity of Novel Quercetin-1,2,3-Triazole Hybrids using the 1,3-Dipolar Cycloaddition (Click) Reaction. <i>Synthesis</i> , 2022, 54, 4272-4284.	2.3	2
6	The application of isatin-based multicomponent-reactions in the quest for new bioactive and druglike molecules. <i>European Journal of Medicinal Chemistry</i> , 2021, 211, 113102.	5.5	72
7	Stereoselective benzilic acid rearrangements: new advances on an old story. <i>Chemical Communications</i> , 2021, 57, 2585-2590.	4.1	10
8	Engaging Isatins in Multicomponent Reactions (MCRs) – Easy Access to Structural Diversity. <i>Chemical Record</i> , 2021, 21, 924-1037.	5.8	29
9	Seeking a Fast Screening Method of the Varietal Origin of Olive Oil: The Usefulness of an NMR-Based Approach. <i>Foods</i> , 2021, 10, 399.	4.3	9
10	Ugi Reaction Synthesis of Oxindole-Lactam Hybrids as Selective Butyrylcholinesterase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1718-1725.	2.8	13
11	Novel 1,2,3-triazole epincinchonas: Transitioning from organocatalysis to biological activities. <i>Synthetic Communications</i> , 2021, 51, 2954-2974.	2.1	3
12	Petasis adducts of tryptanthrin – synthesis, biological activity evaluation and druglikeness assessment. <i>New Journal of Chemistry</i> , 2021, 45, 14633-14649.	2.8	8
13	Ugi Adducts of Isatin as Promising Antiproliferative Agents with Druglike Properties. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 3434-3455.	2.7	6
14	Synthesis of Novel 1,2,3-Triazole-Dihydropyrimidinone Hybrids Using Multicomponent 1,3-Dipolar Cycloaddition (Click)-Biginelli Reactions: Anticancer Activity. <i>Synlett</i> , 2020, 31, 615-621.	1.8	19
15	Asymmetric Neber Reaction in the Synthesis of Chiral 2-(Tetrazol-5-yl)-2H-Azirines. <i>Synlett</i> , 2020, 31, 553-558.	1.8	10
16	Ambipolar pentacyclic diamides with interesting electrochemical and optoelectronic properties. <i>Chemical Communications</i> , 2020, 56, 14893-14896.	4.1	0
17	A Decade of Indium-Catalyzed Multicomponent Reactions (MCRs). <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5501-5513.	2.4	21
18	N-1,2,3-triazole-isatin derivatives for cholinesterase and $\beta$ -amyloid aggregation inhibition: A comprehensive bioassay study. <i>Bioorganic Chemistry</i> , 2020, 98, 103753.	4.1	32

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19	Cluster Preface: Special Edition Dedicated to ISySyCat2019. <i>Synlett</i> , 2020, 31, 521-522.	1.8	0
20	Accessing New 5- <i>h</i> - <i>h</i> -(3,3-Disubstituted Oxindole)-Benzylamine Derivatives from Isatin: Stereoselective Organocatalytic Three Component Pétasis Reaction. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3622-3634.	2.4	9
21	Assessment of the triacylglycerol fraction of olive oil by 1D-NMR spectroscopy: exploring the usefulness of DEPT tool on the peak assignments of <sup>13</sup> C NMR spectra. <i>European Food Research and Technology</i> , 2019, 245, 2479-2488.	3.3	5
22	In silico, NMR and pharmacological evaluation of an hydroxyoxindole cholinesterase inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 354-363.	3.0	11
23	A magnetic controllable tool for the selective enrichment of dimethoate from olive oil samples: A responsive molecular imprinting-based approach. <i>Food Chemistry</i> , 2018, 254, 309-316.	8.2	21
24	Pd-Catalyzed One-Pot Borylation/Intramolecular Asymmetric Arylation on <i>h</i> -Ketiminoamides: Innovative Approach to Chiral 3-Amino-2-oxindoles. <i>Synlett</i> , 2018, 29, 497-502.	1.8	5
25	Metal-Catalyzed Routes to Dibenzodiazepines (DBDAs) and Structural Analogues: Recent Advances. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6743-6753.	2.4	8
26	Novel Palladium-Catalyzed Intramolecular Addition of Aryl Bromides to Aldehydes as Key to the Synthesis of 3,3-Dimethylchromanones and 3,3-Dimethylchromanols. <i>ChemistrySelect</i> , 2018, 3, 11333-11338.	1.5	5
27	Virtual Collection of Portuguese Catalysis. <i>ChemCatChem</i> , 2018, 10, 2712-2716.	3.7	1
28	A photoswitchable host-guest approach for the selective enrichment of dimethoate from olive oil. <i>Analytica Chimica Acta</i> , 2018, 1035, 60-69.	5.4	6
29	Recent advances in the asymmetric catalytic synthesis of chiral 3-hydroxy and 3-aminooxindoles and derivatives: Medicinally relevant compounds. <i>Tetrahedron</i> , 2018, 74, 4927-4957.	1.9	36
30	A stereoselective, catalytic strategy for the in-flow synthesis of advanced precursors of rasagiline and tamsulosin. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6242-6247.	3.0	10
31	Stereoselective Metal-Free Reduction of Chiral Imines in Batch and Flow Mode: A Convenient Strategy for the Synthesis of Chiral Active Pharmaceutical Ingredients. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 39-44.	2.4	9
32	Stereoselective Reduction of Imines with Trichlorosilane Using Solid-Supported Chiral Picolinamides. <i>Molecules</i> , 2016, 21, 1182.	3.8	17
33	Modular Catalytic Synthesis of 3-Amino- <i>h</i> - <i>h</i> -oxindoles: Rh Catalysis with Isatin-Derived <i>N</i> -Boc-Protected Ketimines. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 806-812.	2.4	19
34	New cholinesterase inhibitors for Alzheimer's disease: Structure Activity Studies (SARs) and molecular docking of isoquinolone and azepanone derivatives. <i>Bioorganic Chemistry</i> , 2016, 67, 1-8.	4.1	18
35	Enantioselective Rhodium(I)-Catalyzed Additions of Arylboronic Acids to <i>N</i> -(1,2,3-Triazol-4-yl)isatin Derivatives: Accessing <i>N</i> -(1,2,3-Triazolmethyl)- <i>h</i> -hydroxy- <i>h</i> -aryloxindoles. <i>ChemCatChem</i> , 2016, 8, 73518-3526.	3.7	13
36	Design, Synthesis and Bioassays of 3-Substituted- <i>h</i> -Hydroxyoxindoles for Cholinesterase Inhibition. <i>ChemistrySelect</i> , 2016, 1, 3580-3588.	1.5	16

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37	Dual-layer solid-phase extraction based on molecular imprinting technology: Seeking a route to enhance selectivity for trace analysis of pesticide residues in olive oil. <i>Electrophoresis</i> , 2016, 37, 1916-1922.	2.4	14
38	Sequential alcohol oxidation/putative homo Claisen-Tishchenko-type reaction to give esters: a key process in accessing novel biologically active lactone macrocycles. <i>RSC Advances</i> , 2016, 6, 63214-63223.	3.6	7
39	Insights into (S)-rivastigmine inhibition of butyrylcholinesterase (BuChE): Molecular docking and saturation transfer difference NMR (STD-NMR). <i>Bioorganic Chemistry</i> , 2016, 67, 105-109.	4.1	20
40	Recent advances in metal catalyzed intramolecular aryl additions—accessing bioactive molecules. <i>Tetrahedron Letters</i> , 2016, 57, 1197-1204.	1.4	12
41	Novel hydroxyamides and amides containing d -glucopyranose or d -fructose units: Biological assays in MCF-7 and MDST8 cell lines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1039-1043.	2.2	3
42	Transition-metal-catalyzed intramolecular cyclization of amido(hetero)arylboronic acid aldehydes to isoquinolinones and derivatives. <i>RSC Advances</i> , 2015, 5, 20108-20114.	3.6	18
43	Development of a selective sorbent for the solid-phase extraction of terbuthylazine in olive oil samples: A molecular imprinting strategy. <i>Journal of Separation Science</i> , 2015, 38, 1204-1212.	2.5	19
44	Design and development of molecularly imprinted polymers for the selective extraction of deltamethrin in olive oil: An integrated computational-assisted approach. <i>Journal of Chromatography A</i> , 2015, 1409, 1-10.	3.7	32
45	Palladium catalysed sequential imine arylation/Suzuki-Miyaura coupling: synthesis of $\pm$ -(biaryl)benzylamines. <i>Tetrahedron</i> , 2015, 71, 3314-3324.	1.9	6
46	New click-chemistry methods for 1,2,3-triazoles synthesis: recent advances and applications. <i>Tetrahedron Letters</i> , 2015, 56, 2853-2859.	1.4	177
47	Synthesis of an advanced precursor of Rivastigmine: Cinchona -derived quaternary ammonium salts as organocatalysts for stereoselective imine reductions. <i>Tetrahedron Letters</i> , 2015, 56, 5752-5756.	1.4	16
48	A catalytic route to dibenzodiazepines involving Buchwald-Hartwig coupling: reaction scope and mechanistic consideration. <i>RSC Advances</i> , 2015, 5, 99990-99999.	3.6	12
49	An emerging approach for the targeting analysis of dimethoate in olive oil: The role of molecularly imprinted polymers based on photo-iniferter induced $\alpha$ -living radical polymerization. <i>Reactive and Functional Polymers</i> , 2015, 86, 37-46.	4.1	17
50	Tailor-made molecularly imprinted polymers for dimethoate and deltamethrin recognition: synthesis, characterization and chromatographic evaluation. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	14
51	3-Hydroxypyrrolidine and (3,4)-dihydroxypyrrolidine derivatives: Inhibition of rat intestinal $\pm$ -glucosidase. <i>Bioorganic Chemistry</i> , 2014, 54, 81-88.	4.1	37
52	Asymmetric catalytic arylation of ethyl glyoxylate using organoboron reagents and Rh(i)-phosphane and phosphane-phosphite catalysts. <i>RSC Advances</i> , 2014, 4, 6035.	3.6	14
53	Synthesis of novel cinchona-amino acid hybrid organocatalysts for asymmetric catalysis. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 923-935.	1.8	29
54	Cinchona-Derived Picolinamides: Effective Organocatalysts for Stereoselective Imine Hydrosilylation. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7339-7342.	2.4	31

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55	Asymmetric Epoxidation and Sulfoxidation. , 2013, , 309-382.		8
56	Five-membered iminocyclitol $\hat{\pm}$ -glucosidase inhibitors: Synthetic, biological screening and in silico studies. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1911-1917.	3.0	51
57	TARTROL-derived chiral phosphine $\hat{\pm}$ phosphite ligands and their performance in enantioselective Cu-catalyzed 1,4-addition reactions. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 657-662.	1.8	11
58	Enantioselective catalytic synthesis of ethyl mandelate derivatives using Rh(I) $\hat{\pm}$ NHC catalysts and organoboron reagents. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 628-632.	1.8	13
59	Ethyl 2,2-bis(4-methylphenylsulfonamido)acetate to aromatic $\hat{\pm}$ -amino acids: stable substrates for catalytic arylation reactions. <i>Tetrahedron</i> , 2013, 69, 10091-10097.	1.9	15
60	Expeditious and novel synthesis of $\hat{\pm}$ -hydroxyesters via rhodium $\hat{\pm}$ NHC catalyzed arylation of ethyl glyoxalate. <i>Tetrahedron</i> , 2012, 68, 7211-7216.	1.9	10
61	Chiral Diphosphane $\hat{\pm}$ and NHC $\hat{\pm}$ Containing Ruthenium Catalysts for the Catalytic Asymmetric Arylation of Aldimines with Organoboron Reagents. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4232-4239.	2.4	18
62	Covalent and Noncovalent Immobilization of Arylid $\hat{\pm}$ BOX Ligands and Their Derivatives: Evaluation in the Catalytic Asymmetric Cyclopropanation of Styrenes. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 518-528.	2.4	9
63	Advances in the Catalytic Asymmetric Arylation of Imines using Organoboron Reagents: An Approach to Chiral Arylamines. <i>ChemCatChem</i> , 2011, 3, 635-645.	3.7	119
64	Evaluation of phosphinoamidoester $\hat{\pm}$ derived Pd catalysts in the asymmetric allylic alkylation reaction: Theoretical studies and mechanistic insights. <i>Chirality</i> , 2011, 23, 383-388.	2.6	7
65	Chiral monooxazolines as modular copper(I)-heterocomplex building blocks: investigations on the catalytic asymmetric cyclopropanation of alkenes. <i>Tetrahedron</i> , 2011, 67, 4640-4648.	1.9	8
66	Catalytic Enantioselective Addition of Phenylboronic Acid and Phenylboroxine to $\hat{\pm}$ -tosylimines: Pd <sup>II</sup> and Rh <sup>I</sup> Catalysis. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1639-1643.	2.4	43
67	Recent Multiple Transition Metal Catalysed Single-Pot Reactions. <i>Current Organic Synthesis</i> , 2010, 7, 94-119.	1.3	22
68	A Comparison of ( $\hat{\pm}$ -Me) $\hat{\pm}$ DUPHOS and ( $\hat{\pm}$ -Pr) $\hat{\pm}$ DUPHOS $\hat{\pm}$ Pr Ligands in the Pd <sup>0</sup> -Catalysed Asymmetric Allylic Alkylation Reaction: Stereochemical and Kinetic Considerations. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 6311-6317.	2.4	9
69	Arylid-OX and Arylid-BOX derived catalysts: applications in catalytic asymmetric cyclopropanation. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1272-1278.	1.8	13
70	The benzilic ester rearrangement: synthesis of labelled compounds and theoretical studies. <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 735-739.	1.9	7
71	Application of Walphos Ligand in the Pd(0)-Catalyzed Asymmetric Allylic Alkylation Reaction. <i>Synthetic Communications</i> , 2009, 39, 4423-4428.	2.1	7
72	Chiral oxoperoxomolybdenum(VI) complexes for enantioselective olefin epoxidation: Some mechanistic and stereochemical reflections. <i>Coordination Chemistry Reviews</i> , 2008, 252, 170-175.	18.8	68

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73	Novel chiral P,O-ligands for homogeneous Pd(0) catalysed asymmetric allylic alkylation reactions. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 454-458.	1.8	19
74	New Route to N-alkylated trans-pyrrolidine Diols from 2,2,3,3-tetramethoxybutane-protected Dimethyl Tartrate. <i>Synthetic Communications</i> , 2008, 38, 1365-1374.	2.1	4
75	Rh(I)-Catalyzed Asymmetric Hydrosilylation and Hydroboration/Oxidation Reactions Using Berens Ligand. <i>Synthetic Communications</i> , 2008, 38, 4207-4214.	2.1	8
76	Mechanistic and Synthetic Aspects of the Benzilic Acid and Ester Rearrangements. <i>Mini-Reviews in Organic Chemistry</i> , 2007, 4, 310-316.	1.3	24
77	Palladium catalysed enantioselective asymmetric allylic alkylations using the Berens <sup>TM</sup> DIOP analogue. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1804-1808.	1.8	18
78	The catalytic tandem oxidation/benzilic ester rearrangement (BER): insights into reaction mechanism and stereoselectivity. <i>Tetrahedron Letters</i> , 2007, 48, 7957-7960.	1.4	10
79	Cu(I) catalysed cyclopropanation of olefins: Stereoselectivity studies with Arylid-Box and Isbut-Box ligands. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 4863-4874.	1.8	28
80	Stereoselective alkylation of tartrate derivatives. A concise route to (+)-O-methylpiscidic acid and natural analogues. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2361.	2.8	17
81	Arylid-Box: A new family of chiral bis-oxazoline ligands for metal mediated catalytic enantioselective synthesis. <i>Inorganic Chemistry Communication</i> , 2006, 9, 823-826.	3.9	18
82	Synthesis, characterisation and reactivity of oxodiperoxo-[2-(1-pyrazolyl)-6-methylpyridine]molybdenum(VI): The first chiral 2-(1-pyrazole)pyridineoxodiperoxomolybdenum(VI) complex. <i>Inorganica Chimica Acta</i> , 2006, 359, 1519-1523.	2.4	23
83	Catalytic epoxidation of olefins using MoO <sub>3</sub> and TBHP: Mechanistic considerations and the effect of amine additives on the reaction. <i>Journal of Molecular Catalysis A</i> , 2006, 249, 123-128.	4.8	23
84	Catalytic epoxidation of olefins using MoO <sub>3</sub> and TBHP: Effect of the addition of chiral 2-substituted pyridines on the catalytic rate and asymmetric induction. <i>Journal of Molecular Catalysis A</i> , 2006, 260, 295-298.	4.8	11
85	A simple, highly regioselective, one-pot stereoselective synthesis of tertiary $\beta$ -hydroxyesters: a tandem oxidation/benzilic ester rearrangement. <i>Tetrahedron Letters</i> , 2006, 47, 6049-6052.	1.4	19
86	Approaches towards catalytic asymmetric epoxidations with methyltrioxorhenium(VII) (MTO): Synthesis and evaluation of chiral non-racemic 2-substituted pyridines. <i>Journal of Molecular Catalysis A</i> , 2005, 235, 285-292.	4.8	32
87	Isbut-Box: A new chiral C <sub>2</sub> symmetric bis-oxazoline for catalytic enantioselective synthesis. <i>Journal of Molecular Catalysis A</i> , 2005, 236, 38-45.	4.8	20
88	An efficient and selective method for the epoxidation of olefins using urea-hydrogen peroxide and methyltrioxorhenium (VII) (MTO) catalyst with heterocyclic aromatic amines. <i>Journal of Molecular Catalysis A</i> , 2004, 217, 69-72.	4.8	36
89	Asymmetric synthesis and applications of $\beta$ -amino Weinreb amides: asymmetric synthesis of (S)-coniine. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1387-1394.	2.8	67
90	Highly Stereoselective Aldol Reaction for the Synthesis of $\beta$ -Lactones Starting from Tartaric Acid. <i>Journal of Organic Chemistry</i> , 2004, 69, 7847-7850.	3.2	14

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91	Asymmetric synthesis of anti-(2S,3S)- and syn-(2R,3S)-diaminobutanoic acid. This is one of a number of contributions from the current members of the Dyson Perrins Laboratory to mark the end of almost 90 years of organic chemistry research in that building, as all its current academic staff move across South Parks Road to a new purpose-built laboratory. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2708.	2.8	47
92	Thermostabilization of Proteins by Diglycerol Phosphate, a New Compatible Solute from the Hyperthermophile <i>Archaeoglobus fulgidus</i> . <i>Applied and Environmental Microbiology</i> , 2000, 66, 1974-1979.	3.1	106
93	The alkylation of a novel acetal derived from (2R,3R)-(+)-tartaric acid: An unexpected rearrangement. <i>Tetrahedron Letters</i> , 1999, 40, 1583-1586.	1.4	23
94	Flavonoid epoxides. Part 22. Establishment of the configuration of the diastereomeric solvolysis products of 2-arylmethylenebenzo[b]furan-3(2H)-one (aurone) epoxides. <i>Tetrahedron</i> , 1998, 54, 2169-2180.	1.9	5
95	Flavonoid epoxides. Part 20. Some unusual reactions of dimethyldioxirane (DMD) with flavonoid compounds. <i>Tetrahedron</i> , 1997, 53, 8491-8500.	1.9	18
96	Aspects of the Algar-Flynn-Oyamada (AFO) reaction. <i>Tetrahedron</i> , 1996, 52, 7163-7178.	1.9	51
97	Asymmetric Synthesis of (2S,3S)- and (2R,3S)-2,3-Diaminobutanoic Acids, Non-Protein Amino-Acid Diastereomers found in a number of Peptide Antibiotics. <i>Synlett</i> , 1996, 1996, 621-622.	1.8	25
98	Asymmetric synthesis of the N-terminal component of microginin: (2S,3R)-3-amino-2-hydroxydecanoic acid, its (2R,3R)-epimer and (3R)-3-aminodecanoic acid. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 165-176.	1.8	66
99	Asymmetric synthesis of (2S,3R)-3-amino-2-hydroxydecanoic acid: The unknown amino acid component of microginin. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 203-206.	1.8	64
100	Accessing Medicinally Relevant O-Benzofused Heterocycles through C-X Activation: Recent Trends. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	1
101	Transformation of a Chiral Glycolic Acid to an Isoaurone: Stereochemical Assignment of a Benzilic Acid Rearrangement Product. <i>Asian Journal of Organic Chemistry</i> , 0, , .	2.7	1
102	Survey of New, Small-Molecule Isatin-Based Oxindole Hybrids as Multi-Targeted Drugs for the Treatment of Alzheimer's Disease. <i>Synthesis</i> , 0, , .	2.3	4