Andrew Montgomery

List of Publications by Year in descending order

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118 papers 3,810 citations

30 h-index 54 g-index

118 all docs

118 docs citations

118 times ranked

5763 citing authors

#	Article	IF	CITATIONS
1	Low intrinsic efficacy for G protein activation can explain the improved side effect profiles of new opioid agonists. Science Signaling, 2020, 13, .	1.6	219
2	Neuroinflammation and brain atrophy in former NFL players: An in vivo multimodal imaging pilot study. Neurobiology of Disease, 2015, 74, 58-65.	2.1	208
3	Recent Developments in TSPO PET Imaging as A Biomarker of Neuroinflammation in Neurodegenerative Disorders. International Journal of Molecular Sciences, 2019, 20, 3161.	1.8	173
4	Effects of Bioisosteric Fluorine in Synthetic Cannabinoid Designer Drugs JWH-018, AM-2201, UR-144, XLR-11, PB-22, 5F-PB-22, APICA, and STS-135. ACS Chemical Neuroscience, 2015, 6, 1445-1458.	1.7	167
5	Neuroinflammation in frontotemporal dementia. Nature Reviews Neurology, 2019, 15, 540-555.	4.9	159
6	An overview of late-stage functionalization in today's drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 1137-1149.	2.5	140
7	Imaging of Glial Cell Activation and White Matter Integrity in Brains of Active and Recently Retired National Football League Players. JAMA Neurology, 2017, 74, 67.	4.5	134
8	DYRK1A in neurodegeneration and cancer: Molecular basis and clinical implications. , 2015, 151, 87-98.		122
9	Cubanes in Medicinal Chemistry. Journal of Medicinal Chemistry, 2019, 62, 1078-1095.	2.9	97
10	Increased Expression of Translocator Protein (TSPO) Marks Pro-inflammatory Microglia but Does Not Predict Neurodegeneration. Molecular Imaging and Biology, 2018, 20, 94-102.	1.3	88
11	The Synthesis and Pharmacological Evaluation of Adamantane-Derived Indoles: Cannabimimetic Drugs of Abuse. ACS Chemical Neuroscience, 2013, 4, 1081-1092.	1.7	80
12	Detection of the recently emerged synthetic cannabinoid 5F–MDMBâ€PICA in â€~legal high' products and human urine samples. Drug Testing and Analysis, 2018, 10, 196-205.	1.6	78
13	Radiosynthesis of [¹⁸ F]DPAâ€₹14, a selective radioligand for imaging the translocator protein (18 kDa) with PET. Journal of Labelled Compounds and Radiopharmaceuticals, 2008, 51, 286-292.	0.5	76
14	Peptides, Peptidomimetics, and Carbohydrate–Peptide Conjugates as Amyloidogenic Aggregation Inhibitors for Alzheimer's Disease. ACS Chemical Neuroscience, 2018, 9, 1530-1551.	1.7	70
15	In vivo assessment of neuroinflammation in progressive multiple sclerosis: a proof of concept study with [18F]DPA714 PET. Journal of Neuroinflammation, 2018, 15, 314.	3.1	64
16	Comparative Evaluation of Three TSPO PET Radiotracers in a LPS-Induced Model of Mild Neuroinflammation in Rats. Molecular Imaging and Biology, 2017, 19, 77-89.	1.3	58
17	<i>O</i> -GlcNAc Modification Protects against Protein Misfolding and Aggregation in Neurodegenerative Disease. ACS Chemical Neuroscience, 2019, 10, 2209-2221.	1.7	56
18	The evolving science of phytocannabinoids. Nature Reviews Chemistry, 2018, 2, .	13.8	55

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19	Identification of the allosteric P2X7 receptor antagonist [11C]SMW139 as a PET tracer of microglial activation. Scientific Reports, 2018, 8, 6580.	1.6	54
20	Pharmacology of Cumyl-Carboxamide Synthetic Cannabinoid New Psychoactive Substances (NPS) CUMYL-BICA, CUMYL-PICA, CUMYL-5F-PICA, CUMYL-5F-PINACA, and Their Analogues. ACS Chemical Neuroscience, 2017, 8, 2159-2167.	1.7	53
21	Imaging glial activation in patients with post-treatment Lyme disease symptoms: a pilot study using [11C]DPA-713 PET. Journal of Neuroinflammation, 2018, 15, 346.	3.1	46
22	In vitro determination of the efficacy of illicit synthetic cannabinoids at CB ₁ receptors. British Journal of Pharmacology, 2019, 176, 4653-4665.	2.7	46
23	The P2X7 receptor tracer [11C]SMW139 as an in vivo marker of neuroinflammation in multiple sclerosis: a first-in man study. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 379-389.	3.3	44
24	Amyloid load and translocator protein 18ÂkDa in APPswePS1-dE9 mice: a longitudinal study. Neurobiology of Aging, 2015, 36, 1639-1652.	1.5	43
25	Targeting the Oxytocin System: New Pharmacotherapeutic Approaches. Trends in Pharmacological Sciences, 2019, 40, 22-37.	4.0	43
26	Synthesis and Pharmacological Profiling of the Metabolites of Synthetic Cannabinoid Drugs APICA, STS-135, ADB-PINACA, and 5F-ADB-PINACA. ACS Chemical Neuroscience, 2017, 8, 1673-1680.	1.7	42
27	Prodromal neuroinflammatory, cholinergic and metabolite dysfunction detected by PET and MRS in the TgF344-AD transgenic rat model of AD: a collaborative multi-modal study. Theranostics, 2021, 11, 6644-6667.	4.6	42
28	Could 18 F-DPA-714 PET imaging be interesting to use in the early post-stroke period?. EJNMMI Research, 2014, 4, 28.	1.1	40
29	Bio-orthogonal labeling as a tool to visualize and identify newly synthesized proteins in Caenorhabditis elegans. Nature Protocols, 2014, 9, 2237-2255.	5.5	39
30	Effect of maternal immune activation on the kynurenine pathway in preadolescent rat offspring and on MK801-induced hyperlocomotion in adulthood: Amelioration by COX-2 inhibition. Brain, Behavior, and Immunity, 2014, 41, 173-181.	2.0	35
31	The 2-alkyl-2H-indazole regioisomers of synthetic cannabinoids AB-CHMINACA, AB-FUBINACA, AB-PINACA, and 5F-AB-PINACA are possible manufacturing impurities with cannabimimetic activities. Forensic Toxicology, 2016, 34, 286-303.	1.4	35
32	Disinhibition-like behavior in a P301S mutant tau transgenic mouse model of frontotemporal dementia. Neuroscience Letters, 2016, 631, 24-29.	1.0	34
33	The Polyphenol Altenusin Inhibits in Vitro Fibrillization of Tau and Reduces Induced Tau Pathology in Primary Neurons. ACS Chemical Neuroscience, 2017, 8, 743-751.	1.7	32
34	Optimisation of LRRK2 inhibitors and assessment of functional efficacy in cell-based models of neuroinflammation. European Journal of Medicinal Chemistry, 2015, 95, 29-34.	2.6	31
35	Global phosphoproteomics reveals DYRK1A regulates CDK1 activity in glioblastoma cells. Cell Death Discovery, 2021, 7, 81.	2.0	31
36	Synthesis of Biologically Active Seven-Membered-Ring Heterocycles. Synthesis, 2013, 45, 3211-3227.	1.2	30

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37	Hydroxamic Acid Inhibitors Provide Cross-Species Inhibition of <i>Plasmodium</i> M1 and M17 Aminopeptidases. Journal of Medicinal Chemistry, 2019, 62, 622-640.	2.9	30
38	Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. Advances in Protein Chemistry and Structural Biology, 2017, 109, 25-76.	1.0	28
39	Extracellular Loops 2 and 4 of GLYT2 Are Required for N-Arachidonylglycine Inhibition of Glycine Transport. Journal of Biological Chemistry, 2009, 284, 36424-36430.	1.6	27
40	Synthesis of Usnic Acid Derivatives and Evaluation of Their Antiproliferative Activity against Cancer Cells. Journal of Natural Products, 2019, 82, 1768-1778.	1.5	27
41	Structure–activity relationships of synthetic cannabinoid designer drug RCS-4 and its regioisomers and C4 homologues. Forensic Toxicology, 2015, 33, 355-366.	1.4	26
42	Longitudinal investigation of neuroinflammation and metabolite profiles in the <scp>APP</scp> _{swe} × <scp>PS</scp> 1 _{Δe9} transgenic mouse model of Alzheimer's disease. Journal of Neurochemistry, 2018, 144, 318-335.	2.1	26
43	Altered serum protein levels in frontotemporal dementia and amyotrophic lateral sclerosis indicate calcium and immunity dysregulation. Scientific Reports, 2020, 10, 13741.	1.6	26
44	Neuroimaging of translocator protein in patients with systemic lupus erythematosus: a pilot study using [¹¹ C]DPA-713 positron emission tomography. Lupus, 2017, 26, 170-178.	0.8	25
45	TSPO as a target for glioblastoma therapeutics. Biochemical Society Transactions, 2015, 43, 531-536.	1.6	24
46	Kinase targets in CNS drug discovery. Future Medicinal Chemistry, 2017, 9, 303-314.	1.1	24
47	Discovery and pharmacological evaluation of a novel series of adamantyl cyanoguanidines as P2X7 receptor antagonists. European Journal of Medicinal Chemistry, 2017, 130, 433-439.	2.6	24
48	Structure-metabolism relationships of valine and tert-leucine-derived synthetic cannabinoid receptor agonists: a systematic comparison of the in vitro phase I metabolism using pooled human liver microsomes and high-resolution mass spectrometry. Forensic Toxicology, 2019, 37, 316-329.	1.4	24
49	Mouse models of frontotemporal dementia: A comparison of phenotypes with clinical symptomatology. Neuroscience and Biobehavioral Reviews, 2017, 74, 126-138.	2.9	23
50	Anaesthetic-dependent changes in gene expression following acute and chronic exposure in the rodent brain. Scientific Reports, 2020, 10, 9366.	1.6	23
51	Radiosynthesis of (<i>R</i> , <i>S</i>)â€{ ¹⁸ F]GE387: A Potential PET Radiotracer for Imaging Translocator Protein 18â€kDa (TSPO) with Low Binding Sensitivity to the Human Gene Polymorphism rs6971. ChemMedChem, 2019, 14, 982-993.	1.6	22
52	Lack of neuroinflammation in the HIV-1 transgenic rat: an [18F]-DPA714 PET imaging study. Journal of Neuroinflammation, 2015, 12, 171.	3.1	21
53	Acute and residual effects in adolescent rats resulting from exposure to the novel synthetic cannabinoids AB-PINACA and AB-FUBINACA. Journal of Psychopharmacology, 2017, 31, 757-769.	2.0	21
54	A binge high sucrose diet provokes systemic and cerebral inflammation in rats without inducing obesity. Scientific Reports, 2021, 11, 11252.	1.6	21

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55	Transition state-based ST6Gal I inhibitors: Mimicking the phosphodiester linkage with a triazole or carbamate through an enthalpy-entropy compensation. Scientific Reports, 2017, 7, 14428.	1.6	20
56	Insight into the Structural Features of TSPO: Implications for Drug Development. Trends in Pharmacological Sciences, 2020, 41, 110-122.	4.0	20
57	Targeting the MAPK7/MMP9 axis for metastasis in primary bone cancer. Oncogene, 2020, 39, 5553-5569.	2.6	20
58	Strategies to develop selective CB2 receptor agonists from indole carboxamide synthetic cannabinoids. European Journal of Medicinal Chemistry, 2019, 180, 291-309.	2.6	19
59	Structure–activity relationships of N-substituted 4-(trifluoromethoxy)benzamidines with affinity for GluN2B-containing NMDA receptors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 828-830.	1.0	17
60	Computational characterisation of the interactions between human ST6Gal I and transition-state analogue inhibitors: insights for inhibitor design. Journal of Molecular Recognition, 2016, 29, 210-222.	1.1	17
61	Biomarker discovery and development for frontotemporal dementia and amyotrophic lateral sclerosis. Brain, 2022, 145, 1598-1609.	3.7	17
62	Radiosynthesis and in vivoevaluation of $[11C]$ Ro-647312: a novel NR1/2B subtype selective NMDA receptor radioligand. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 911-920.	0.5	16
63	Differential activation of G proteinâ€mediated signaling by synthetic cannabinoid receptor agonists. Pharmacology Research and Perspectives, 2020, 8, e00566.	1.1	16
64	Modulation of human T-type calcium channels by synthetic cannabinoid receptor agonists in vitro. Neuropharmacology, 2021, 187, 108478.	2.0	16
65	Pharmacology of novel small-molecule tubulin inhibitors in glioblastoma cells with enhanced EGFR signalling. Biochemical Pharmacology, 2015, 98, 587-601.	2.0	15
66	Detection of Neuroinflammation in a Rat Model of Subarachnoid Hemorrhage Using [18F]DPA-714 PET Imaging. Molecular Imaging, 2016, 15, 153601211663918.	0.7	15
67	Multiâ€modal imaging of longâ€ŧerm recovery postâ€stroke by positron emission tomography and matrixâ€assisted laser desorption/ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 721-729.	0.7	15
68	PET imaging of P2X7R in the experimental autoimmune encephalomyelitis model of multiple sclerosis using [11C]SMW139. Journal of Neuroinflammation, 2020, 17, 300.	3.1	15
69	The novel P2X7 receptor antagonist PKT100 improves cardiac function and survival in pulmonary hypertension by direct targeting of the right ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H183-H191.	1.5	15
70	Design, synthesis and evaluation of carbamate-linked uridyl-based inhibitors of human ST6Gal I. Bioorganic and Medicinal Chemistry, 2020, 28, 115561.	1.4	15
71	Ether analogues of DPA-714 with subnanomolar affinity for the translocator protein (TSPO). European Journal of Medicinal Chemistry, 2015, 93, 392-400.	2.6	14
72	The Formation of Seven-Membered Heterocycles under Mild Pictet–Spengler Conditions: A Route to Pyrazolo[3,4]benzodiazepines. Journal of Organic Chemistry, 2016, 81, 4883-4889.	1.7	14

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73	MDMA (â€~Ecstasy'), oxytocin and vasopressin modulate social preference in rats: A role for handling and oxytocin receptors. Pharmacology Biochemistry and Behavior, 2016, 150-151, 115-123.	1.3	13
74	First Nondiscriminating Translocator Protein Ligands Produced from a Carbazole Scaffold. Journal of Medicinal Chemistry, 2019, 62, 8235-8248.	2.9	13
75	Synthesis and in vitro evaluation of fluorine-18 benzimidazole sulfones as CB2 PET-radioligands. Organic and Biomolecular Chemistry, 2019, 17, 5086-5098.	1.5	13
76	Structure–activity relationship studies of SEN12333 analogues: Determination of the optimal requirements for binding affinities at α7 nAChRs through incorporation of known structural motifs. European Journal of Medicinal Chemistry, 2015, 95, 277-301.	2.6	12
77	Derivatives of the pyrazolo[1,5- a]pyrimidine acetamide DPA-713 as translocator protein (TSPO) ligands and pro-apoptotic agents in human glioblastoma. European Journal of Pharmaceutical Sciences, 2017, 96, 186-192.	1.9	12
78	Determination and reduction of translocator protein (TSPO) ligand rs6971 discrimination. MedChemComm, 2017, 8, 202-210.	3.5	12
79	The chemistry and pharmacology of synthetic cannabinoid SDBâ€006 and its regioisomeric fluorinated and methoxylated analogs. Drug Testing and Analysis, 2018, 10, 1099-1109.	1.6	12
80	Rapid Antibacterial Activity of Cannabichromenic Acid against Methicillin-Resistant Staphylococcus aureus. Antibiotics, 2020, 9, 523.	1.5	12
81	Onset of hippocampal network aberration and memory deficits in P301S tau mice are associated with an early gene signature. Brain, 2020, 143, 1889-1904.	3.7	12
82	DYRK1A Negatively Regulates CDK5-SOX2 Pathway and Self-Renewal of Glioblastoma Stem Cells. International Journal of Molecular Sciences, 2021, 22, 4011.	1.8	12
83	The development of PET radioligands for imaging the translocator protein (18 kDa): What have we learned?. Journal of Labelled Compounds and Radiopharmaceuticals, 2010, 53, 501-510.	0.5	11
84	Flexible analogues of WAY-267,464: Synthesis and pharmacology at the human oxytocin and vasopressin 1 a receptors. European Journal of Medicinal Chemistry, 2016, 108, 730-740.	2.6	11
85	Pharmacological evaluation of a novel series of urea, thiourea and guanidine derivatives as P2X 7 receptor antagonists. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2439-2442.	1.0	11
86	New-generation azaindole-adamantyl-derived synthetic cannabinoids. Forensic Toxicology, 2019, 37, 350-365.	1.4	11
87	CNS cell type–specific gene profiling of P301S tau transgenic mice identifies genes dysregulated by progressive tau accumulation. Journal of Biological Chemistry, 2019, 294, 14149-14162.	1.6	10
88	O-GlcNAcylation of truncated NAC segment alters peptide-dependent effects on \hat{l}_{\pm} -synuclein aggregation. Bioorganic Chemistry, 2020, 94, 103389.	2.0	10
89	Novel Furan-2-yl-1 <i>H</i> -pyrazoles Possess Inhibitory Activity against \hat{l} ±-Synuclein Aggregation. ACS Chemical Neuroscience, 2020, 11, 2303-2315.	1.7	9
90	The Recent Development of α ₇ Nicotinic Acetylcholine Receptor (nAChR) Ligands as Therapeutic Candidates for the Treatment of Central Nervous System (CNS) Diseases. Current Pharmaceutical Design, 2016, 22, 2134-2151.	0.9	9

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91	Computerâ€aided design of human sialyltransferase inhibitors of hST8Sia III. Journal of Molecular Recognition, 2018, 31, e2684.	1.1	8
92	Changes in cell morphology guide identification of tubulin as the off-target for protein kinase inhibitors. Pharmacological Research, 2018, 134, 166-178.	3.1	8
93	Challenges in molecular imaging of Parkinson's disease: A brief overview. Brain Research Bulletin, 2009, 78, 105-108.	1.4	7
94	Rapid access to N-(indol-2-yl)amides and N-(indol-3-yl)amides as unexplored pharmacophores. Organic and Biomolecular Chemistry, 2017, 15, 576-580.	1.5	7
95	Synthesis and evaluation of various heteroaromatic benzamides as analogues of $\hat{a} \in \text{``ylidene-benzamide}$ cannabinoid type 2 receptor agonists. Tetrahedron Letters, 2019, 60, 151019.	0.7	7
96	Evaluation of ¹⁸ F-IAM6067 as a sigma-1 receptor PET tracer for neurodegeneration <i>in vivo</i> in rodents and in human tissue. Theranostics, 2020, 10, 7938-7955.	4.6	7
97	Conformationally rigid derivatives of WAY-267,464: Synthesis and pharmacology at the human oxytocin and vasopressin-1a receptors. European Journal of Medicinal Chemistry, 2018, 143, 1644-1656.	2.6	6
98	The discovery of a potent and selective pyrazolo-[2,3-e]-[1,2,4]-triazine cannabinoid type 2 receptor agonist. European Journal of Medicinal Chemistry, 2021, 210, 113087.	2.6	6
99	Remarkable Enhancement in Boron Uptake Within Glioblastoma Cells With Carboranyl–Indole Carboxamides. Chemistry - an Asian Journal, 2018, 13, 3321-3327.	1.7	5
100	Synthesis and in vitro evaluation of diverse heterocyclic diphenolic compounds as inhibitors of DYRK1A. Bioorganic and Medicinal Chemistry, 2018, 26, 5852-5869.	1.4	5
101	Purinergic P2X ₇ Receptor: A Therapeutic Target in Amyotrophic Lateral Sclerosis. ACS Chemical Neuroscience, 2022, 13, 1479-1490.	1.7	5
102	Investigation of pyrazolo-sulfonamides as putative small molecule oxytocin receptor agonists. European Journal of Medicinal Chemistry, 2017, 136, 330-333.	2.6	4
103	Tricyclic heterocycles display diverse sensitivity to the A147T TSPO polymorphism. European Journal of Medicinal Chemistry, 2020, 207, 112725.	2.6	4
104	Reversing binding sensitivity to A147T translocator protein. RSC Medicinal Chemistry, 2020, 11, 511-517.	1.7	4
105	Tracer development for PET imaging of proteinopathies. Nuclear Medicine and Biology, 2022, 114-115, 115-127.	0.3	4
106	A patent review of oxytocin receptor antagonists 2013-2017. Expert Opinion on Therapeutic Patents, 2017, 27, 1287-1290.	2.4	3
107	Synthesis and biological evaluation of selective phosphonate-bearing 1,2,3-triazole-linked sialyltransferase inhibitors. RSC Medicinal Chemistry, 2021, 12, 1680-1689.	1.7	3
108	Investigations of amide bond variation and biaryl modification in analogues of α7 nAChR agonist SEN12333. European Journal of Medicinal Chemistry, 2014, 84, 200-205.	2.6	2

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109	A systematic exploration of the effects of flexibility and basicity on sigma (if) receptor binding in a series of substituted diamines. Organic and Biomolecular Chemistry, 2016, 14, 9388-9405.	1.5	2
110	Tobramycin and Colistin display anti-inflammatory properties in CuFi-1 cystic fibrosis cell line. European Journal of Pharmacology, 2021, 902, 174098.	1.7	2
111	The Nature of Diamino Linker and Halogen Bonding Define Selectivity of Pyrrolopyrimidine-Based LIMK1 Inhibitors. Frontiers in Chemistry, 2021, 9, 781213.	1.8	2
112	Synthesis and antitumour evaluation of indole-2-carboxamides against paediatric brain cancer cells. RSC Medicinal Chemistry, 2021, 12, 1910-1925.	1.7	1
113	Differential mitochondrial protein interaction profile between human translocator protein and its A147T polymorphism variant. PLoS ONE, 2022, 17, e0254296.	1.1	1
114	Measuring Affinity of Ligands to the Oxytocin Using. Methods in Molecular Biology, 2022, 2384, 231-245.	0.4	0
115	IL-1b release and pore formation induced by the human antimicrobial peptide LL-37 may be P2Y13 receptor-mediated. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-41.	0.0	0
116	Pharmacological exploration of peptide ligands with short residence-time at the oxytocin receptor. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-74.	0.0	0
117	Pyrazolo[1, 4]diazepine-based small molecule oxytocin receptor partial agonists. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-24.	0.0	0
118	In vitro determination of the CB1 efficacy of illicit synthetic cannabinoids. FASEB Journal, 2019, 33, lb384.	0.2	0