David E Olson

List of Publications by Year
in descending order

46 papers	3,009 citations	201575 27 h-index	233338 45 g-index
46 all docs	46 docs citations	46 times ranked	2891 citing authors

#	Article	IF	Citations
1	The evolution of the psychedelic revolution. Neuropsychopharmacology, 2022, 47, 413-414.	2.8	6
2	Psychedelicâ€inspired approaches for treating neurodegenerative disorders. Journal of Neurochemistry, 2022, 162, 109-127.	2.1	17
3	Biochemical Mechanisms Underlying Psychedelic-Induced Neuroplasticity. Biochemistry, 2022, 61, 127-136.	1.2	41
4	Structure-Activity Relationships of Dopamine Transporter Pharmacological Chaperones. Frontiers in Cellular Neuroscience, 2022, 16, .	1.8	7
5	The iboga enigma: the chemistry and neuropharmacology of iboga alkaloids and related analogs. Natural Product Reports, 2021, 38, 307-329.	5.2	43
6	A non-hallucinogenic psychedelic analogue with therapeutic potential. Nature, 2021, 589, 474-479.	13.7	221
7	The Subjective Effects of Psychedelics May Not Be Necessary for Their Enduring Therapeutic Effects. ACS Pharmacology and Translational Science, 2021, 4, 563-567.	2.5	149
8	Transient Stimulation with Psychoplastogens Is Sufficient to Initiate Neuronal Growth. ACS Pharmacology and Translational Science, 2021, 4, 452-460.	2.5	60
9	Calculated oxidation potentials predict reactivity in Baeyerâ€“Mills reactions. Organic and Biomolecular Chemistry, 2021, 19, 7575-7580.	1.5	8
10	The Promise of Psychedelic Science. ACS Pharmacology and Translational Science, 2021, 4, 413-415.	2.5	8
11	Psychedelic-inspired drug discovery using an engineered biosensor. Cell, 2021, 184, 2779-2792.e18.	13.5	93
12	An analog of psychedelics restores functional neural circuits disrupted by unpredictable stress. Molecular Psychiatry, 2021, 26, 6237-6252.	4.1	39
13	A Modular Approach to Arylazo-1,2,3-triazole Photoswitches. Organic Letters, 2021, 23, 4305-4310.	2.4	22
14	Engineering Safer Psychedelics for Treating Addiction. Neuroscience Insights, 2021, 16, 263310552110338.	0.9	15
15	Psychedelics and Other Psychoplastogens for Treating Mental Illness. Frontiers in Psychiatry, 2021, 12, 727117.	1.3	70
16	Sex-Specific Social Effects on Depression-Related Behavioral Phenotypes in Mice. Life, 2021, 11, 1327.	1.1	1
17	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. Cell, 2020, 183, 1986-2002.e26.	13.5	104
18	Psychedelic Microdosing: Prevalence and Subjective Effects. Journal of Psychoactive Drugs, 2020, 52, 113-122.	1.0	55

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19	Identification of Psychoplastogenic N,N-Dimethylaminoisotryptamine (isoDMT) Analogues through Structureâ€“Activity Relationship Studies. Journal of Medicinal Chemistry, 2020, 63, 1142-1155.	2.9	49
20	Bryostatin 1 Promotes Synaptogenesis and Reduces Dendritic Spine Density in Cortical Cultures through a PKC-Dependent Mechanism. ACS Chemical Neuroscience, 2020, 11, 1545-1554.	1.7	16
21	A Redox Isomerization Strategy for Accessing Modular Azobenzene Photoswitches with Near Quantitative Bidirectional Photoconversion. Organic Letters, 2019, 21, 8765-8770.	2.4	8
22	Ex Vivo Analysis of Tryptophan Metabolism Using ¹⁹F NMR. ACS Chemical Biology, 2019, 14, 1866-1873.	1.6	5
23	Chronic, Intermittent Microdoses of the Psychedelic N,N-Dimethyltryptamine (DMT) Produce Positive Effects on Mood and Anxiety in Rodents. ACS Chemical Neuroscience, 2019, 10, 3261-3270.	1.7	104
24	Reconsidering the Structure of Serlyticin-A. Journal of Natural Products, 2019, 82, 3464-3468.	1.5	9
25	Effects of N,N-Dimethyltryptamine on Rat Behaviors Relevant to Anxiety and Depression. ACS Chemical Neuroscience, 2018, 9, 1582-1590.	1.7	104
26	Synthetic Studies Toward Pactamycin Highlighting Oxidative Câ€“H and Alkene Amination Technologies. Journal of Organic Chemistry, 2018, 83, 7121-7134.	1.7	22
27	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. ACS Central Science, 2018, 4, 1727-1741.	5.3	32
28	Psychoplastogens: A Promising Class of Plasticity-Promoting Neurotherapeutics. Journal of Experimental Neuroscience, 2018, 12, 117906951880050.	2.3	115
29	Dark Classics in Chemical Neuroscience: N,N-Dimethyltryptamine (DMT). ACS Chemical Neuroscience, 2018, 9, 2344-2357.	1.7	70
30	Dark Classics in Chemical Neuroscience: 3,4-Methylenedioxymethamphetamine. ACS Chemical Neuroscience, 2018, 9, 2408-2427.	1.7	50
31	Reaction of N,N-Dimethyltryptamine with Dichloromethane Under Common Experimental Conditions. ACS Omega, 2018, 3, 4968-4973.	1.6	8
32	Psychedelics Promote Structural and Functional Neural Plasticity. Cell Reports, 2018, 23, 3170-3182.	2.9	566
33	Inhibitors of Glycogen Synthase Kinase 3 with Exquisite Kinome-Wide Selectivity and Their Functional Effects. ACS Chemical Biology, 2016, 11, 1952-1963.	1.6	55
34	Inhibition of DYRK1A Stimulates Human Î²-Cell Proliferation. Diabetes, 2016, 65, 1660-1671.	0.3	157
35	Hydroxamate-Based Histone Deacetylase Inhibitors Can Protect Neurons from Oxidative Stress via a Histone Deacetylase-Independent Catalase-Like Mechanism. Chemistry and Biology, 2015, 22, 439-445.	6.2	36
36	Hydroxamic Acid-Based Histone Deacetylase (HDAC) Inhibitors Can Mediate Neuroprotection Independent of HDAC Inhibition. Journal of Neuroscience, 2014, 34, 14328-14337.	1.7	25

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37	An Unbiased Approach To Identify Endogenous Substrates of â€œHistoneâ€•Deacetylase 8. ACS Chemical Biology, 2014, 9, 2210-2216.	1.6	72
38	Vicinal Diamination of Alkenes under Rh-Catalysis. Journal of the American Chemical Society, 2014, 136, 13506-13509.	6.6	105
39	Potent and Selective Inhibition of Histone Deacetylase 6 (HDAC6) Does Not Require a Surface-Binding Motif. Journal of Medicinal Chemistry, 2013, 56, 1772-1776.	2.9	104
40	Discovery of the First Histone Deacetylase 6/8 Dual Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 4816-4820.	2.9	80
41	Synthesis of Differentially Substituted 1,2-Diamines through Advances in Câ€“H Amination Technology. Organic Letters, 2012, 14, 6174-6177.	2.4	22
42	Synthesis and Reactivity of Unique Heterocyclic Structures en Route to Substituted Diamines. Organic Letters, 2011, 13, 3336-3339.	2.4	22
43	Electrophilic Amination of Organometallic Reagents: Recent Discoveries and Mechanistic Insights. Mini-Reviews in Organic Chemistry, 2011, 8, 341-346.	0.6	6
44	Asymmetric Synthesis of Diamine Derivatives via Sequential Palladium and Rhodium Catalysis. Journal of the American Chemical Society, 2009, 131, 4190-4191.	6.6	99
45	Catalytic Câ˜H Amination for the Preparation of Substituted 1,2-Diamines. Journal of the American Chemical Society, 2008, 130, 11248-11249.	6.6	108
46	Psychedelic-Inspired Drug Discovery Using an Engineered Biosensor. SSRN Electronic Journal, 0, , .	0.4	1