James R Fuchs

List of Publications by Year
in descending order

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88 papers	5,397 citations	57758 44 h-index	88630 70 g-index
97 all docs	97 docs citations	97 times ranked	6650 citing authors

#	Article	IF	Citations
1	Pancreatic Cancer-Associated Stellate Cells Promote Differentiation of Myeloid-Derived Suppressor Cells in a STAT3-Dependent Manner. Cancer Research, 2013, 73, 3007-3018.	0.9	340
2	Novel STAT3 Phosphorylation Inhibitors Exhibit Potent Growth-Suppressive Activity in Pancreatic and Breast Cancer Cells. Cancer Research, 2010, 70, 2445-2454.	0.9	211
3	Allosteric integrase inhibitor potency is determined through the inhibition of HIV-1 particle maturation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8690-8695.	7.1	178
4	Total Synthesis of (Â±)-Perophoramidine. Journal of the American Chemical Society, 2004, 126, 5068-5069.	13.7	175
5	Reactions of SmI2with Alkyl Halides and Ketones:Â Inner-Sphere vs Outer-Sphere Electron Transfer in Reactions of Sm(II) Reductants. Journal of the American Chemical Society, 2000, 122, 7718-7722.	13.7	170
6	Multimode, Cooperative Mechanism of Action of Allosteric HIV-1 Integrase Inhibitors. Journal of Biological Chemistry, 2012, 287, 16801-16811.	3.4	167
7	Targeting colon cancer stem cells using a new curcumin analogue, GO-Y030. British Journal of Cancer, 2011, 105, 212-220.	6.4	137
8	Modulation of DNA Methylation by a Sesquiterpene Lactone Parthenolide. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 505-514.	2.5	133
9	Structural and mechanistic bases for a potent HIV-1 capsid inhibitor. Science, 2020, 370, 360-364.	12.6	114
10	Indol-2-one Intermediates:â€‰ Mechanistic Evidence and Synthetic Utility. Total Syntheses of (Â±)-Flustramines A and C. Organic Letters, 2005, 7, 677-680.	4.6	112
11	STAT3 signaling pathway is necessary for cell survival and tumorsphere forming capacity in ALDH+/CD133+ stem cell-like human colon cancer cells. Biochemical and Biophysical Research Communications, 2011, 416, 246-251.	2.1	112
12	A New Class of Multimerization Selective Inhibitors of HIV-1 Integrase. PLoS Pathogens, 2014, 10, e1004171.	4.7	112
13	Intramolecular Dielsâ^'Alder/1,3-Dipolar Cycloaddition Cascade of 1,3,4-Oxadiazoles. Journal of the American Chemical Society, 2006, 128, 10589-10595.	13.7	111
14	HIV-1 Integrase Binds the Viral RNA Genome and Is Essential during Virion Morphogenesis. Cell, 2016, 166, 1257-1268.e12.	28.9	110
15	Rocaglamide, silvestrol and structurally related bioactive compounds from Aglaia species. Natural Product Reports, 2014, 31, 924-939.	10.3	108
16	The small molecule curcumin analog FLLL32 induces apoptosis in melanoma cells via STAT3 inhibition and retains the cellular response to cytokines with anti-tumor activity. Molecular Cancer, 2010, 9, 165.	19.2	106
17	Structureâ€“activity relationship studies of curcumin analogues. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2065-2069.	2.2	105
18	Total Synthesis of (Â±)-Lennoxamine and (Â±)-Aphanorphine by Intramolecular Electrophilic Aromatic Substitution Reactions of 2-Amidoacroleins. Organic Letters, 2001, 3, 3923-3925.	4.6	104

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19	The effect of cosolvent on the reducing power of SmI2 in tetrahydrofuran. Tetrahedron Letters, 1998, 39, 4429-4432.	1.4	103
20	Discovery of Anticancer Agents of Diverse Natural Origin. Anticancer Research, 2016, 36, 5623-5638.	1.1	94
21	Distribution and Redistribution of HIV-1 Nucleocapsid Protein in Immature, Mature, and Integrase-Inhibited Virions: a Role for Integrase in Maturation. Journal of Virology, 2015, 89, 9765-9780.	3.4	91
22	Curcumin induces proapoptotic effects against human melanoma cells and modulates the cellular response to immunotherapeutic cytokines. Molecular Cancer Therapeutics, 2009, 8, 2726-2735.	4.1	90
23	The effect of lithium bromide and lithium chloride on the reactivity of SmI2 in THF. Tetrahedron Letters, 1997, 38, 8157-8158.	1.4	88
24	HRP2 determines the efficiency and specificity of HIV-1 integration in LEDGF/p75 knockout cells but does not contribute to the antiviral activity of a potent LEDGF/p75-binding site integrase inhibitor. Nucleic Acids Research, 2012, 40, 11518-11530.	14.5	86
25	The A128T Resistance Mutation Reveals Aberrant Protein Multimerization as the Primary Mechanism of Action of Allosteric HIV-1 Integrase Inhibitors. Journal of Biological Chemistry, 2013, 288, 15813-15820.	3.4	85
26	The novel curcumin analog FLLL32 decreases STAT3 DNA binding activity and expression, and induces apoptosis in osteosarcoma cell lines. BMC Cancer, 2011, 11, 112.	2.6	83
27	New structural analogues of curcumin exhibit potent growth suppressive activity in human colorectal carcinoma cells. BMC Cancer, 2009, 9, 99.	2.6	82
28	New curcumin analogues exhibit enhanced growthâ€suppressive activity and inhibit AKT and signal transducer and activator of transcription 3 phosphorylation in breast and prostate cancer cells. Cancer Science, 2009, 100, 1719-1727.	3.9	82
29	Site-Selective Câ€“H Functionalization of (Hetero)Arenes via Transient, Non-symmetric Iodanes. CheM, 2019, 5, 417-428.	11.7	80
30	Structurally Modified Curcumin Analogs Inhibit STAT3 Phosphorylation and Promote Apoptosis of Human Renal Cell Carcinoma and Melanoma Cell Lines. PLoS ONE, 2012, 7, e40724.	2.5	80
31	EGFRâ€“STAT3 signaling promotes formation of malignant peripheral nerve sheath tumors. Oncogene, 2014, 33, 173-180.	5.9	75
32	Small molecules, LLL12 and FLLL32, inhibit STAT3 and exhibit potent growth suppressive activity in osteosarcoma cells and tumor growth in mice. Investigational New Drugs, 2012, 30, 916-926.	2.6	67
33	IL-6, a risk factor for hepatocellular carcinoma: FLLL32 inhibits IL-6-Induced STAT3 phosphorylation in human hepatocellular cancer cells. Cell Cycle, 2010, 9, 3423-3427.	2.6	65
34	HAb18G/CD147 Promotes pSTAT3-Mediated Pancreatic Cancer Development via CD44s. Clinical Cancer Research, 2013, 19, 6703-6715.	7.0	65
35	Potent Cytotoxic Arylnaphthalene Lignan Lactones from Phyllanthus poilanei. Journal of Natural Products, 2014, 77, 1494-1504.	3.0	65
36	Bioactive Flavaglines and Other Constituents Isolated from Aglaia perviridis. Journal of Natural Products, 2013, 76, 394-404.	3.0	63

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37	TALEN Knockout of the PSIP1 Gene in Human Cells: Analyses of HIV-1 Replication and Allosteric Integrase Inhibitor Mechanism. Journal of Virology, 2014, 88, 9704-9717.	3.4	63
38	Overcoming chemo/radio-resistance of pancreatic cancer by inhibiting STAT3 signaling. Oncotarget, 2016, 7, 11708-11723.	1.8	58
39	Curcumin analogues exhibit enhanced growth suppressive activity in human pancreatic cancer cells. Anti-Cancer Drugs, 2009, 20, 444-449.	1.4	57
40	Cytotoxic and NF-ÎºB Inhibitory Constituents of the Stems of Cratoxylum cochinchinense and Their Semisynthetic Analogues. Journal of Natural Products, 2011, 74, 1117-1125.	3.0	57
41	Insertional Mutagenesis Identifies a STAT3/Arid1b/Î²-catenin Pathway Driving Neurofibroma Initiation. Cell Reports, 2016, 14, 1979-1990.	6.4	55
42	Sterols with antileishmanial activity isolated from the roots of Pentalinon andrieuxii. Phytochemistry, 2012, 82, 128-135.	2.9	49
43	A liquid chromatographyâ€“tandem mass spectrometric method for quantification of curcuminoids in cell medium and mouse plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 3045-3051.	2.3	48
44	Potential Anticancer Agents Characterized from Selected Tropical Plants. Journal of Natural Products, 2019, 82, 657-679.	3.0	48
45	HIV-1 integrase tetramers are the antiviral target of pyridine-based allosteric integrase inhibitors. ELife, 2019, 8, .	6.0	41
46	Sensitization of Head and Neck Cancer to Cisplatin Through the Use of a Novel Curcumin Analog. JAMA Otolaryngology, 2011, 137, 499.	1.2	40
47	Intramolecular Electrophilic Aromatic Substitution Reactions of 2-Amidoacroleins:â€‰ A New Method for the Preparation of Tetrahydroisoquinolines, Tetrahydro-3-benzazepines, and Hexahydro-3-benzazocines. Organic Letters, 2001, 3, 3349-3351.	4.6	39
48	The mechanism of H171T resistance reveals the importance of NÎ´-protonated His171 for the binding of allosteric inhibitor BI-D to HIV-1 integrase. Retrovirology, 2014, 11, 100.	2.0	39
49	Pro-growth role of the JMJD2C histone demethylase in HCT-116 colon cancer cells and identification of curcuminoids as JMJD2 inhibitors. American Journal of Translational Research (discontinued), 2014, 6, 236-47.	0.0	39
50	Inhibition of the JAK2/STAT3 signaling pathway exerts a therapeutic effect on osteosarcoma. Molecular Medicine Reports, 2015, 12, 498-502.	2.4	37
51	Cytotoxic and natural killer cell stimulatory constituents of Phyllanthus songboiensis. Phytochemistry, 2015, 111, 132-140.	2.9	36
52	Phosphoproteomic analysis of anaplastic lymphoma kinase (<scp>ALK</scp>) downstream signaling pathways identifies signal transducer and activator of transcriptionÂ3 as a functional target of activated <scp>ALK</scp> in neuroblastoma cells. FEBS Journal, 2013, 280, 5269-5282.	4.7	35
53	Trichormamides A and B with Antiproliferative Activity from the Cultured Freshwater Cyanobacterium Trichormus sp. UIC 10339. Journal of Natural Products, 2014, 77, 1871-1880.	3.0	31
54	Resistance to pyridine-based inhibitor KF116 reveals an unexpected role of integrase in HIV-1 Gag-Pol polyprotein proteolytic processing. Journal of Biological Chemistry, 2017, 292, 19814-19825.	3.4	31

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55	Allosteric HIVâ€1 integrase inhibitors promote aberrant protein multimerization by directly mediating interâ€subunit interactions: Structural and thermodynamic modeling studies. Protein Science, 2016, 25, 1911-1917.	7.6	30
56	The Competitive Interplay between Allosteric HIV-1 Integrase Inhibitor BI/D and LEDGF/p75 during the Early Stage of HIV-1 Replication Adversely Affects Inhibitor Potency. ACS Chemical Biology, 2016, 11, 1313-1321.	3.4	29
57	A Critical Role of the C-terminal Segment for Allosteric Inhibitor-induced Aberrant Multimerization of HIV-1 Integrase. Journal of Biological Chemistry, 2014, 289, 26430-26440.	3.4	28
58	Indole-based allosteric inhibitors of HIV-1 integrase. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4748-4752.	2.2	28
59	STarFish: A Stacked Ensemble Target Fishing Approach and its Application to Natural Products. Journal of Chemical Information and Modeling, 2019, 59, 4906-4920.	5.4	27
60	Novel Anti-Campylobacter Compounds Identified Using High Throughput Screening of a Pre-selected Enriched Small Molecules Library. Frontiers in Microbiology, 2016, 7, 405.	3.5	24
61	Phyllanthusmin Derivatives Induce Apoptosis and Reduce Tumor Burden in High-Grade Serous Ovarian Cancer by Late-Stage Autophagy Inhibition. Molecular Cancer Therapeutics, 2018, 17, 2123-2135.	4.1	24
62	Identification of a Small Molecule Anti-biofilm Agent Against Salmonella enterica. Frontiers in Microbiology, 2018, 9, 2804.	3.5	23
63	Trichormamides C and D, antiproliferative cyclic lipopeptides from the cultured freshwater cyanobacterium cf. Oscillatoria sp. UIC 10045. Bioorganic and Medicinal Chemistry, 2015, 23, 3153-3162.	3.0	22
64	Synthesis and antiproliferative activity of derivatives of the phyllanthusmin class of arylnaphthalene lignan lactones. Bioorganic and Medicinal Chemistry, 2018, 26, 2354-2364.	3.0	21
65	¹⁵N Stable Isotope Labeling and Comparative Metabolomics Facilitates Genome Mining in Cultured Cyanobacteria. ACS Chemical Biology, 2020, 15, 758-765.	3.4	21
66	A New Class of Allosteric HIV-1 Integrase Inhibitors Identified by Crystallographic Fragment Screening of the Catalytic Core Domain. Journal of Biological Chemistry, 2016, 291, 23569-23577.	3.4	20
67	Novel small molecule IL-6 inhibitor suppresses autoreactive Th17 development and promotes Treg development. Clinical and Experimental Immunology, 2019, 196, 215-225.	2.6	19
68	Discovery of Anticancer Agents of Diverse Natural Origin. Journal of Natural Products, 2022, 85, 702-719.	3.0	19
69	Discovery of novel small molecule modulators of Clavibacter michiganensis subsp. michiganensis. Frontiers in Microbiology, 2015, 6, 1127.	3.5	18
70	A Novel Sterol Isolated from a Plant Used by Mayan Traditional Healers Is Effective in Treatment of Visceral Leishmaniasis Caused by Leishmania donovani. ACS Infectious Diseases, 2015, 1, 497-506.	3.8	18
71	An Isoquinoline Scaffold as a Novel Class of Allosteric HIV-1 Integrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 215-220.	2.8	18
72	Two small molecule compounds, LLL12 and FLLL32, exhibit potent inhibitory activity on STAT3 in human rhabdomyosarcoma cells. International Journal of Oncology, 2011, 38, 279-85.	3.9	18

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73	Novel narrow spectrum benzyl thiophene sulfonamide derivatives to control Campylobacter. Journal of Antibiotics, 2019, 72, 555-565.	2.0	14
74	FLLL12 induces apoptosis in lung cancer cells through a p53/p73-independent but death receptor 5-dependent pathway. Cancer Letters, 2015, 363, 166-175.	7.2	13
75	Evaluation of synergy between host and pathogen-directed therapies against intracellular Leishmania donovani. International Journal for Parasitology: Drugs and Drug Resistance, 2019, 10, 125-132.	3.4	12
76	Total Synthesis of Scytonemide A Employing Weinreb AM Solid-Phase Resin. Journal of Natural Products, 2018, 81, 534-542.	3.0	11
77	Semisynthetic Derivatives of the Verticillin Class of Natural Products through Acylation of the C11 Hydroxy Group. ACS Medicinal Chemistry Letters, 2021, 12, 625-630.	2.8	11
78	Evaluation of Novel Quorum Sensing Inhibitors Targeting Auto-Inducer 2 (AI-2) for the Control of Avian Pathogenic Escherichia coli Infections in Chickens. Microbiology Spectrum, 2022, 10, e0028622.	3.0	11
79	Computational and synthetic approaches for developing Lavendustin B derivatives as allosteric inhibitors of HIV-1 integrase. European Journal of Medicinal Chemistry, 2016, 123, 673-683.	5.5	10
80	Pentalinonsterol, a Constituent of Pentalinon andrieuxii, Possesses Potent Immunomodulatory Activity and Primes T Cell Immune Responses. Journal of Natural Products, 2017, 80, 2515-2523.	3.0	10
81	PHY34 inhibits autophagy through V-ATPase V0A2 subunit inhibition and CAS/CSE1L nuclear cargo trafficking in high grade serous ovarian cancer. Cell Death and Disease, 2022, 13, 45.	6.3	10
82	Preclinical In Vitro, In Vivo, and Pharmacokinetic Evaluations of FLLL12 for the Prevention and Treatment of Head and Neck Cancers. Cancer Prevention Research, 2016, 9, 63-73.	1.5	9
83	Calothrixamides A and B from the Cultured Cyanobacterium Calothrix sp. UIC 10520. Journal of Natural Products, 2018, 81, 2083-2090.	3.0	9
84	Use of the Hollow Fiber Assay for the Discovery of Novel Anticancer Agents from Fungi. Methods in Molecular Biology, 2012, 944, 267-277.	0.9	6
85	Specialized metabolites of the United States lichen Niebla homalea and their antiproliferative activities. Phytochemistry, 2020, 180, 112521.	2.9	6
86	Identification and Optimization of a Novel HIV-1 Integrase Inhibitor. ACS Omega, 2022, 7, 4482-4491.	3.5	4
87	Pentalinonsterol, a Phytosterol from Pentalinon andrieuxii, is Immunomodulatory through Phospholipase A2 in Macrophages toward its Antileishmanial Action. Cell Biochemistry and Biophysics, 2021, , 1.	1.8	2
88	Preparation and Cyclization of 2-Amidoacroleins: Application to the Synthesis of Alkaloid Natural Products. , 2003, , 153.		0