

Jeffrey Smail

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58

papers

1,521

citations

20

h-index

38

g-index

66

ext. papers

1,823

ext. citations

5.7

avg, IF

4.67

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 58 | Tyrosine kinase inhibitors. 17. Irreversible inhibitors of the epidermal growth factor receptor: 4-(phenylamino)quinazoline- and 4-(phenylamino)pyrido[3,2-d]pyrimidine-6-acrylamides bearing additional solubilizing functions. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 1380-97 | 8.3 | 243 |
| 57 | Tyrosine kinase inhibitors. 15. 4-(Phenylamino)quinazoline and 4-(phenylamino)pyrido[d]pyrimidine acrylamides as irreversible inhibitors of the ATP binding site of the epidermal growth factor receptor. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 1803-15 | 8.3 | 166 |
| 56 | Bioreductive prodrugs as cancer therapeutics: targeting tumor hypoxia. <i>Chinese Journal of Cancer</i> , 2014 , 33, 80-6 | | 109 |
| 55 | Nitroreductase gene-directed enzyme prodrug therapy: insights and advances toward clinical utility. <i>Biochemical Journal</i> , 2015 , 471, 131-53 | 3.8 | 85 |
| 54 | Binding mode of the breakthrough inhibitor AZD9291 to epidermal growth factor receptor revealed. <i>Journal of Structural Biology</i> , 2015 , 192, 539-544 | 3.4 | 73 |
| 53 | Targeting EGFR and EGFR resistance mutations in NSCLC: Current developments in medicinal chemistry. <i>Medicinal Research Reviews</i> , 2018 , 38, 1550-1581 | 14.4 | 66 |
| 52 | The synthesis and biological evaluation of novel series of nitrile-containing fluoroquinolones as antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 2150-5 | 2.9 | 60 |
| 51 | TAS-120 Cancer Target Binding: Defining Reactivity and Revealing the First Fibroblast Growth Factor Receptor 1 (FGFR1) Irreversible Structure. <i>ChemMedChem</i> , 2019 , 14, 494-500 | 3.7 | 53 |
| 50 | New Promise and Opportunities for Allosteric Kinase Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13764-13776 | 16.4 | 45 |
| 49 | Creation and screening of a multi-family bacterial oxidoreductase library to discover novel nitroreductases that efficiently activate the bioreductive prodrugs CB1954 and PR-104A. <i>Biochemical Pharmacology</i> , 2013 , 85, 1091-103 | 6 | 44 |
| 48 | Engineering a Multifunctional Nitroreductase for Improved Activation of Prodrugs and PET Probes for Cancer Gene Therapy. <i>Cell Chemical Biology</i> , 2017 , 24, 391-403 | 8.2 | 41 |
| 47 | Tyrosine Kinase Inhibitors. 20. Optimization of Substituted Quinazoline and Pyrido[3,4-d]pyrimidine Derivatives as Orally Active, Irreversible Inhibitors of the Epidermal Growth Factor Receptor Family. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 8103-24 | 8.3 | 40 |
| 46 | Fibroblast Growth Factor Receptor 4 (FGFR4) Selective Inhibitors as Hepatocellular Carcinoma Therapy: Advances and Prospects. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 2905-2915 | 8.3 | 36 |
| 45 | Discovery and optimization of 1-(1H-indol-1-yl)ethanone derivatives as CBP/EP300 bromodomain inhibitors for the treatment of castration-resistant prostate cancer. <i>European Journal of Medicinal Chemistry</i> , 2018 , 147, 238-252 | 6.8 | 34 |
| 44 | 2-Aminopyrimidine Derivatives as New Selective Fibroblast Growth Factor Receptor 4 (FGFR4) Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 543-548 | 4.3 | 26 |
| 43 | Tarloxotinib Is a Hypoxia-Activated Pan-HER Kinase Inhibitor Active Against a Broad Range of HER-Family Oncogenes. <i>Clinical Cancer Research</i> , 2021 , 27, 1463-1475 | 12.9 | 26 |
| 42 | Small-Molecule Inhibitors Directly Targeting KRAS as Anticancer Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 14404-14424 | 8.3 | 26 |

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| 41 | Synthesis and structure-activity relationships of soluble 8-substituted 4-(2-chlorophenyl)-9-hydroxypyrrrolo[3,4-c]carbazole-1,3(2H,6H)-diones as inhibitors of the Wee1 and Chk1 checkpoint kinases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 929-33 | 2.9 | 24 |
| 40 | N-(3-Ethynyl-2,4-difluorophenyl)sulfonamide Derivatives as Selective Raf Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2015 , 6, 543-7 | 4.3 | 21 |
| 39 | Zinc finger nuclease knock-out of NADPH:cytochrome P450 oxidoreductase (POR) in human tumor cell lines demonstrates that hypoxia-activated prodrugs differ in POR dependence. <i>Journal of Biological Chemistry</i> , 2013 , 288, 37138-53 | 5.4 | 20 |
| 38 | The Flavin Reductase MsuE Is a Novel Nitroreductase that Can Efficiently Activate Two Promising Next-Generation Prodrugs for Gene-Directed Enzyme Prodrug Therapy. <i>Cancers</i> , 2013 , 5, 985-97 | 6.6 | 19 |
| 37 | The 1.65 Å resolution structure of the complex of AZD4547 with the kinase domain of FGFR1 displays exquisite molecular recognition. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 525-33 | | 18 |
| 36 | Synthesis and structure-activity relationships of N-6 substituted analogues of 9-hydroxy-4-phenylpyrrolo[3,4-c]carbazole-1,3(2H,6H)-diones as inhibitors of Wee1 and Chk1 checkpoint kinases. <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 1276-96 | 6.8 | 18 |
| 35 | 2,4-Diarylamino-pyrimidines as kinase inhibitors co-targeting IGF1R and EGFR(LB/TM). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 4277-81 | 2.9 | 16 |
| 34 | Synthesis and cytotoxicity of pyranonaphthoquinone natural product analogues under bioreductive conditions. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 7971-80 | 3.4 | 16 |
| 33 | Advancing Clostridia to Clinical Trial: Past Lessons and Recent Progress. <i>Cancers</i> , 2016 , 8, | 6.6 | 16 |
| 32 | 2-Oxo-3, 4-dihydropyrimido[4, 5-d]pyrimidinyl derivatives as new irreversible pan fibroblast growth factor receptor (FGFR) inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 135, 531-543 | 6.8 | 14 |
| 31 | Tumour Hypoxia-Mediated Immunosuppression: Mechanisms and Therapeutic Approaches to Improve Cancer Immunotherapy. <i>Cells</i> , 2021 , 10, | 7.9 | 14 |
| 30 | Rotational Freedom, Steric Hindrance, and Protein Dynamics Explain BLU554 Selectivity for the Hinge Cysteine of FGFR4. <i>ACS Medicinal Chemistry Letters</i> , 2019 , 10, 1180-1186 | 4.3 | 12 |
| 29 | Improved Strategy for the Synthesis of the Anticancer Agent Culicinin D. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 6341-6350 | 3.2 | 12 |
| 28 | Rational design of an AKR1C3-resistant analog of PR-104 for enzyme-prodrug therapy. <i>Biochemical Pharmacology</i> , 2016 , 116, 176-87 | 6 | 12 |
| 27 | Evaluating the abilities of diverse nitroaromatic prodrug metabolites to exit a model Gram negative vector for bacterial-directed enzyme-prodrug therapy. <i>Biochemical Pharmacology</i> , 2018 , 158, 192-200 | 6 | 12 |
| 26 | Medicinal Chemistry Strategies for the Development of Kinase Inhibitors Targeting Point Mutations. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 10726-10741 | 8.3 | 11 |
| 25 | Discovery of Cysteine-targeting Covalent Protein Kinase Inhibitors.. <i>Journal of Medicinal Chemistry</i> , 2021 , | 8.3 | 10 |
| 24 | Engineering NfsB To Activate a Hypoxia-Resistant Analogue of the PET Probe EF5 To Enable Non-Invasive Imaging during Enzyme Prodrug Therapy. <i>Biochemistry</i> , 2019 , 58, 3700-3710 | 3.2 | 8 |

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| 23 | nitroreductase NfsA is a reporter gene for non-invasive PET imaging in cancer gene therapy applications. <i>Theranostics</i> , 2020 , 10, 10548-10562 | 12.1 | 8 |
| 22 | Abstract A157: Antitumor activity of tarloxotinib, a hypoxia-activated EGFR TKI, in patient-derived lung cancer cell lines harboring EGFR exon 20 insertions 2018 , | | 7 |
| 21 | Synthesis and antiproliferative activity of culicinin D analogues containing simplified AHMOD-based residues. <i>European Journal of Medicinal Chemistry</i> , 2019 , 177, 235-246 | 6.8 | 6 |
| 20 | Synthesis of substituted 5-bromomethyl-4-nitroimidazoles and use for the preparation of the hypoxia-selective multikinase inhibitor SN29966. <i>Tetrahedron</i> , 2013 , 69, 9130-9138 | 2.4 | 6 |
| 19 | Prototyping kinase inhibitor-cytotoxin anticancer mutual prodrugs activated by tumour hypoxia: A chemical proof of concept study. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 1215-1219 | 2.9 | 5 |
| 18 | Abstract 5358: The hypoxia-activated EGFR-TKI TH-4000 overcomes erlotinib-resistance in preclinical NSCLC models at plasma levels achieved in a Phase 1 clinical trial 2015 , | | 5 |
| 17 | Abstract A67: Preclinical efficacy of tarloxotinib bromide (TH-4000), a hypoxia-activated EGFR/HER2 inhibitor: rationale for clinical evaluation in EGFR mutant, T790M-negative NSCLC following progression on EGFR-TKI therapy 2015 , | | 4 |
| 16 | Selectively Targeting Tumor Hypoxia With the Hypoxia-Activated Prodrug CP-506. <i>Molecular Cancer Therapeutics</i> , 2021 , 20, 2372-2383 | 6.1 | 4 |
| 15 | Subcellular Location of Tirapazamine Reduction Dramatically Affects Aerobic but Not Anoxic Cytotoxicity. <i>Molecules</i> , 2020 , 25, | 4.8 | 4 |
| 14 | TANK-binding kinase 1 (TBK1): An emerging therapeutic target for drug discovery. <i>Drug Discovery Today</i> , 2021 , 26, 2445-2455 | 8.8 | 4 |
| 13 | Alanine scan-guided synthesis and biological evaluation of analogues of culicinin D, a potent anticancer peptaibol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127135 | 2.9 | 4 |
| 12 | Abstract A247: Mechanism of action of the hypoxia-activated irreversible pan-HER inhibitor SN29966. 2011 , | | 3 |
| 11 | Abstract C46: Design and identification of the novel hypoxia-activated irreversible pan-HER inhibitor SN29966 2009 , | | 2 |
| 10 | Bioreductive prodrug PR-104 improves the tumour distribution and titre of the nitroreductase-armed oncolytic adenovirus ONYX-411 leading to therapeutic benefit. <i>Cancer Gene Therapy</i> , 2021 , | 5.4 | 2 |
| 9 | Use of an optimised enzyme/prodrug combination for Clostridia directed enzyme prodrug therapy induces a significant growth delay in necrotic tumours. <i>Cancer Gene Therapy</i> , 2021 , | 5.4 | 2 |
| 8 | Synthesis and antiproliferative activity of C- and N-terminal analogues of culicinin D. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127331 | 2.9 | 1 |
| 7 | Development of biomarkers to guide the clinical development of tarloxotinib bromide, a hypoxia-activated irreversible EGFR/HER2 inhibitor.. <i>Journal of Clinical Oncology</i> , 2016 , 34, e17521-e17527 | 2.2 | 1 |
| 6 | Pre-Clinical Activity of Novel Hypoxia-Activated FLT3 Inhibitors in FLT3-Mutated AML. <i>Blood</i> , 2016 , 128, 5210-5210 | 2.2 | 1 |

- 5 Investigation of Covalent Warheads in the Design of 2-Aminopyrimidine-based FGFR4 Inhibitors. *ACS Medicinal Chemistry Letters*, **2021**, 12, 647-652 4.3 1
- 4 Design, Synthesis and In-Vitro Biological Evaluation of Antofine and Tylophorine Prodrugs as Hypoxia-Targeted Anticancer Agents. *Molecules*, **2021**, 26, 4.8 1
- 3 Allosterische Kinaseinhibitoren [Erwartungen und Chancen. *Angewandte Chemie*, **2020**, 132, 13868-13883.6 0
- 2 Tissue Pharmacokinetic Properties and Bystander Potential of Hypoxia-Activated Prodrug CP-506 by Agent-Based Modelling.. *Frontiers in Pharmacology*, **2022**, 13, 803602 5.6 0
- 1 Directed evolution of the *B. subtilis* nitroreductase YfkO improves activation of the PET-capable probe SN33623 and CB1954 prodrug. *Biotechnology Letters*, **2021**, 43, 203-211 3