

Neil O Carragher

List of Publications by Year in descending order

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96
papers

7,116
citations

87723

38
h-index

60497

81
g-index

108
all docs

108
docs citations

108
times ranked

11353
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of focal-adhesion kinase in cancer – a new therapeutic opportunity. <i>Nature Reviews Cancer</i> , 2005, 5, 505-515.	12.8	932
2	Screening out irrelevant cell-based models of disease. <i>Nature Reviews Drug Discovery</i> , 2016, 15, 751-769.	21.5	402
3	The calpain system and cancer. <i>Nature Reviews Cancer</i> , 2011, 11, 364-374.	12.8	333
4	Focal adhesion and actin dynamics: a place where kinases and proteases meet to promote invasion. <i>Trends in Cell Biology</i> , 2004, 14, 241-249.	3.6	330
5	v-SRC'S hold over actin and cell adhesions. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 233-245.	16.1	286
6	Extracellular palladium-catalysed dealkylation of 5-fluoro-1-propargyl-uracil as a bioorthogonally activated prodrug approach. <i>Nature Communications</i> , 2014, 5, 3277.	5.8	264
7	Degraded Collagen Fragments Promote Rapid Disassembly of Smooth Muscle Focal Adhesions That Correlates with Cleavage of Pp125FAK, Paxillin, and Talin. <i>Journal of Cell Biology</i> , 1999, 147, 619-630.	2.3	229
8	Preclinical anticancer activity of the potent, oral Src inhibitor AZD0530. <i>Molecular Oncology</i> , 2009, 3, 248-261.	2.1	190
9	Paradox-Breaking RAF Inhibitors that Also Target SRC Are Effective in Drug-Resistant BRAF Mutant Melanoma. <i>Cancer Cell</i> , 2015, 27, 85-96.	7.7	188
10	FLT1 signaling in metastasis-associated macrophages activates an inflammatory signature that promotes breast cancer metastasis. <i>Journal of Experimental Medicine</i> , 2015, 212, 1433-1448.	4.2	186
11	A Novel Role for FAK as a Protease-Targeting Adaptor Protein. <i>Current Biology</i> , 2003, 13, 1442-1450.	1.8	177
12	Development and Bioorthogonal Activation of Palladium-Labile Prodrugs of Gemcitabine. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5395-5404.	2.9	169
13	Comparison of Methods for Image-Based Profiling of Cellular Morphological Responses to Small-Molecule Treatment. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1321-1329.	2.6	166
14	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. <i>Cell Systems</i> , 2016, 2, 38-48.	2.9	159
15	Role of Discoidin Domain Receptors 1 and 2 in Human Smooth Muscle Cell-Mediated Collagen Remodeling. <i>American Journal of Pathology</i> , 2004, 164, 1575-1585.	1.9	158
16	Realizing the Promise of Reverse Phase Protein Arrays for Clinical, Translational, and Basic Research: A Workshop Report. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1625-1643.	2.5	152
17	High-Content Phenotypic Profiling of Drug Response Signatures across Distinct Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 1913-1926.	1.9	147
18	Developments in preclinical cancer imaging: innovating the discovery of therapeutics. <i>Nature Reviews Cancer</i> , 2014, 14, 314-328.	12.8	134

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19	Calpain: a role in cell transformation and migration. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 1539-1543.	1.2	130
20	Spatial Regulation of RhoA Activity during Pancreatic Cancer Cell Invasion Driven by Mutant p53. <i>Cancer Research</i> , 2011, 71, 747-757.	0.4	127
21	Cleavage of Focal Adhesion Kinase by Different Proteases during Src-regulated Transformation and Apoptosis. <i>Journal of Biological Chemistry</i> , 2001, 276, 4270-4275.	1.6	125
22	Monocytes Differentiate to Immune Suppressive Precursors of Metastasis-Associated Macrophages in Mouse Models of Metastatic Breast Cancer. <i>Frontiers in Immunology</i> , 2017, 8, 2004.	2.2	122
23	Inhibition of calpain stabilises podosomes and impairs dendritic cell motility. <i>Journal of Cell Science</i> , 2006, 119, 2375-2385.	1.2	115
24	Intravital FLIM-FRET Imaging Reveals Dasatinib-Induced Spatial Control of Src in Pancreatic Cancer. <i>Cancer Research</i> , 2013, 73, 4674-4686.	0.4	111
25	The Extracellular Matrix Dynamically Regulates Smooth Muscle Cell Responsiveness to PDGF. <i>Annals of the New York Academy of Sciences</i> , 2000, 902, 39-52.	1.8	81
26	Ret inhibition decreases growth and metastatic potential of estrogen receptor positive breast cancer cells. <i>EMBO Molecular Medicine</i> , 2013, 5, 1335-1350.	3.3	80
27	Highly Conserved Homotrimer Cavity Formed by the SARS-CoV-2 Spike Glycoprotein: A Novel Binding Site. <i>Journal of Clinical Medicine</i> , 2020, 9, 1473.	1.0	73
28	Potent organo-osmium compound shifts metabolism in epithelial ovarian cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3800-5.	3.3	71
29	ADF and Cofilin1 Control Actin Stress Fibers, Nuclear Integrity, and Cell Survival. <i>Cell Reports</i> , 2015, 13, 1949-1964.	2.9	70
30	Inhibition of NF- κ B Signaling Ablates the Invasive Phenotype of Glioblastoma. <i>Molecular Cancer Research</i> , 2013, 11, 1611-1623.	1.5	66
31	Real-time Study of E-Cadherin and Membrane Dynamics in Living Animals: Implications for Disease Modeling and Drug Development. <i>Cancer Research</i> , 2009, 69, 2714-2719.	0.4	64
32	Concerns, challenges and promises of high-content analysis of 3D cellular models. <i>Nature Reviews Drug Discovery</i> , 2018, 17, 606-606.	21.5	64
33	Palladium-Mediated Dealkylation of N-Propargyl-Floxuridine as a Bioorthogonal Oxygen-Independent Prodrug Strategy. <i>Scientific Reports</i> , 2015, 5, 9329.	1.6	61
34	Live Cell in Vitro and in Vivo Imaging Applications: Accelerating Drug Discovery. <i>Pharmaceutics</i> , 2011, 3, 141-170.	2.0	60
35	TRPA1-FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. <i>Nature Communications</i> , 2017, 8, 947.	5.8	56
36	Rapid Discovery and Structure-Activity Relationships of Pyrazolopyrimidines That Potently Suppress Breast Cancer Cell Growth via SRC Kinase Inhibition with Exceptional Selectivity over ABL Kinase. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4697-4710.	2.9	52

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37	The mechanism of cell cycle regulation by v-Src. <i>Oncogene</i> , 2001, 20, 5941-5950.	2.6	48
38	ALDH1 Bio-activates Nifuroxazide to Eradicate ALDHHigh Melanoma-Initiating Cells. <i>Cell Chemical Biology</i> , 2018, 25, 1456-1469.e6.	2.5	43
39	Next-generation phenotypic screening. <i>Future Medicinal Chemistry</i> , 2016, 8, 1331-1347.	1.1	39
40	Pharmaco-genomic investigations of organo-iridium anticancer complexes reveal novel mechanism of action. <i>Metallomics</i> , 2018, 10, 93-107.	1.0	39
41	MISpheroid: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	9.0	38
42	AP-1 Differentially Expressed Proteins Krp1 and Fibronectin Cooperatively Enhance Rho-ROCK-Independent Mesenchymal Invasion by Altering the Function, Localization, and Activity of Nondifferentially Expressed Proteins. <i>Molecular and Cellular Biology</i> , 2006, 26, 1480-1495.	1.1	37
43	Reversal of proliferation deficits caused by chromosome 16p13.11 microduplication through targeting NF κ B signaling: an integrated study of patient-derived neuronal precursor cells, cerebral organoids and in vivo brain imaging. <i>Molecular Psychiatry</i> , 2019, 24, 294-311.	4.1	36
44	Profiling distinct mechanisms of tumour invasion for drug discovery: imaging adhesion, signalling and matrix turnover. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 381-397.	1.7	29
45	High-Precision Photothermal Ablation Using Biocompatible Palladium Nanoparticles and Laser Scanning Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3341-3348.	4.0	28
46	High-content phenotypic and pathway profiling to advance drug discovery in diseases of unmet need. <i>Cell Chemical Biology</i> , 2021, 28, 338-355.	2.5	27
47	High content phenotypic screening identifies serotonin receptor modulators with selective activity upon breast cancer cell cycle and cytokine signaling pathways. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115209.	1.4	26
48	FLIM-FRET imaging in vivo reveals 3D-environment spatially regulates RhoGTPase activity during cancer cell invasion. <i>Small GTPases</i> , 2011, 2, 239-244.	0.7	25
49	An ErbB2/c-Src axis links bioenergetics with PRC2 translation to drive epigenetic reprogramming and mammary tumorigenesis. <i>Nature Communications</i> , 2019, 10, 2901.	5.8	24
50	Quantitative phenotypic and pathway profiling guides rational drug combination strategies. <i>Frontiers in Pharmacology</i> , 2014, 5, 118.	1.6	22
51	N-alkynyl derivatives of 5-fluorouracil: susceptibility to palladium-mediated dealkylation and toxigenicity in cancer cell culture. <i>Frontiers in Chemistry</i> , 2014, 2, 56.	1.8	22
52	High-Content Phenotypic Profiling in Esophageal Adenocarcinoma Identifies Selectively Active Pharmacological Classes of Drugs for Repurposing and Chemical Starting Points for Novel Drug Discovery. <i>SLAS Discovery</i> , 2020, 25, 770-782.	1.4	22
53	Accelerating glioblastoma drug discovery: Convergence of patient-derived models, genome editing and phenotypic screening. <i>Molecular and Cellular Neurosciences</i> , 2017, 80, 198-207.	1.0	20
54	A Conformation Selective Mode of Inhibiting SRC Improves Drug Efficacy and Tolerability. <i>Cancer Research</i> , 2021, 81, 5438-5450.	0.4	20

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55	Advancing cancer drug discovery towards more agile development of targeted combination therapies. <i>Future Medicinal Chemistry</i> , 2012, 4, 87-105.	1.1	19
56	Combining imaging and pathway profiling: an alternative approach to cancer drug discovery. <i>Drug Discovery Today</i> , 2012, 17, 203-214.	3.2	18
57	eCF309: a potent, selective and cell-permeable mTOR inhibitor. <i>MedChemComm</i> , 2016, 7, 471-477.	3.5	18
58	Metastasis-associated macrophages constrain antitumor capability of natural killer cells in the metastatic site at least partially by membrane bound transforming growth factor β . , 2021, 9, e001740.		18
59	Development of the Theta Comparative Cell Scoring Method to Quantify Diverse Phenotypic Responses Between Distinct Cell Types. <i>Assay and Drug Development Technologies</i> , 2016, 14, 395-406.	0.6	17
60	N-cadherin stabilises neural identity by dampening anti-neural signals. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	17
61	A computationally designed binding mode flip leads to a novel class of potent tri-vector cyclophilin inhibitors. <i>Chemical Science</i> , 2019, 10, 542-547.	3.7	17
62	Trichoplein binds β 1 and controls endothelial cell function by regulating autophagy. <i>EMBO Reports</i> , 2020, 21, e48192.	2.0	17
63	A Synergistic Anticancer FAK and HDAC Inhibitor Combination Discovered by a Novel Chemical "Genetic High-Content Phenotypic Screen. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 637-649.	1.9	16
64	ISGylation drives basal breast tumour progression by promoting EGFR recycling and Akt signalling. <i>Oncogene</i> , 2021, 40, 6235-6247.	2.6	16
65	Blocking distinct interactions between Glioblastoma cells and their tissue microenvironment: A novel multi-targeted therapeutic approach. <i>Scientific Reports</i> , 2018, 8, 5527.	1.6	15
66	Mammary Tumor Cells with High Metastatic Potential Are Hypersensitive to Macrophage-Derived HGF. <i>Cancer Immunology Research</i> , 2019, 7, 2052-2064.	1.6	15
67	Dasatinib inhibits mammary tumour development in a genetically engineered mouse model. <i>Journal of Pathology</i> , 2013, 230, 430-440.	2.1	14
68	High-Content Analysis to Leverage a Robust Phenotypic Profiling Approach to Vascular Modulation. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1246-1259.	2.6	13
69	Evaluation of Machine Learning Classifiers to Predict Compound Mechanism of Action When Transferred across Distinct Cell Lines. <i>SLAS Discovery</i> , 2019, 24, 224-233.	1.4	13
70	Global histone modification fingerprinting in human cells using epigenetic reverse phase protein array. <i>Cell Death Discovery</i> , 2017, 3, 16077.	2.0	12
71	Reverse Phase Protein Arrays and Drug Discovery. <i>Methods in Molecular Biology</i> , 2017, 1647, 153-169.	0.4	12
72	Automated <i>in vivo</i> drug screen in zebrafish identifies synapse-stabilising drugs with relevance to spinal muscular atrophy. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	12

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73	Chemical Interrogation of Nuclear Size Identifies Compounds with Cancer Cell Line-Specific Effects on Migration and Invasion. <i>ACS Chemical Biology</i> , 2022, 17, 680-700.	1.6	12
74	Reverse Phase Protein Arrays elucidate mechanisms-of-action and phenotypic response in 2D and 3D models. <i>Drug Discovery Today: Technologies</i> , 2017, 23, 7-16.	4.0	11
75	Multiparametric High-Content Cell Painting Identifies Copper Ionophores as Selective Modulators of Esophageal Cancer Phenotypes. <i>ACS Chemical Biology</i> , 2022, 17, 1876-1889.	1.6	11
76	Advanced intravital subcellular imaging reveals vital three-dimensional signalling events driving cancer cell behaviour and drug responses in live tissue. <i>FEBS Journal</i> , 2013, 280, 5177-5197.	2.2	10
77	Novel roles of PRK1 and PRK2 in cilia and cancer biology. <i>Scientific Reports</i> , 2020, 10, 3902.	1.6	10
78	Combined targeting of MEK and the glucocorticoid receptor for the treatment of RAS-mutant multiple myeloma. <i>BMC Cancer</i> , 2020, 20, 269.	1.1	10
79	The oncogene Gankyrin is expressed in testicular cancer and contributes to cisplatin sensitivity in embryonal carcinoma cells. <i>BMC Cancer</i> , 2019, 19, 1124.	1.1	9
80	Integrative analysis of multi-platform reverse-phase protein array data for the pharmacodynamic assessment of response to targeted therapies. <i>Scientific Reports</i> , 2020, 10, 21985.	1.6	9
81	Naturally Inspired Peptide Leads: Alanine Scanning Reveals an Actin-Targeting Thiazole Analogue of Bisebromoamide. <i>ChemBioChem</i> , 2016, 17, 1621-1627.	1.3	8
82	Machine Learning Enables Live Label-Free Phenotypic Screening in Three Dimensions. <i>Assay and Drug Development Technologies</i> , 2018, 16, 51-63.	0.6	8
83	The retinal tyrosine kinome of diabetic Akimba mice highlights potential for specific Src family kinase inhibition in retinal vascular disease. <i>Experimental Eye Research</i> , 2020, 197, 108108.	1.2	8
84	Real Time Detection of In Vitro Tumor Cell Apoptosis Induced by CD8 ⁺ T Cells to Study Immune Suppressive Functions of Tumor-infiltrating Myeloid Cells. <i>Journal of Visualized Experiments</i> , 2019, . .	0.2	7
85	Empirical drug discovery: a view from the proteome. <i>Drug Discovery Today: Technologies</i> , 2017, 23, 1-5.	4.0	6
86	Modelling distinct modes of tumour invasion and metastasis. <i>Drug Discovery Today: Disease Models</i> , 2011, 8, 103-112.	1.2	5
87	NODAL/TGF β 2 signalling mediates the self-sustained stemness induced by PIK3CAH1047R homozygosity in pluripotent stem cells. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	5
88	Pathway profiling of a novel SRC inhibitor, AZD0424, in combination with MEK inhibitors for cancer treatment. <i>Molecular Oncology</i> , 2022, 16, 1072-1090.	2.1	5
89	Assaying Calpain Activity. <i>Methods in Molecular Biology</i> , 2007, 370, 109-119.	0.4	4
90	Drug Screening Platforms and RPPA. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1188, 203-226.	0.8	4

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91	High-Dimensional Profiling: The Theta Comparative Cell Scoring Method. <i>Methods in Molecular Biology</i> , 2018, 1787, 171-181.	0.4	3
92	Brain microenvironment-driven resistance to immune and targeted therapies in acral melanoma. <i>ESMO Open</i> , 2020, 5, e000707.	2.0	3
93	Application of a High-Content Screening Assay Utilizing Primary Human Lung Fibroblasts to Identify Antifibrotic Drugs for Rapid Repurposing in COVID-19 Patients. <i>SLAS Discovery</i> , 2021, 26, 1091-1106.	1.4	3
94	FLT1 signaling in metastasis-associated macrophages activates an inflammatory signature that promotes breast cancer metastasis. <i>Journal of Cell Biology</i> , 2015, 210, 2104OIA168.	2.3	1
95	A Novel High-Content Phenotypic Screen To Identify Inhibitors of Mitochondrial DNA Maintenance in Trypanosomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0198021.	1.4	1
96	Calpain. , 2015, , 729-732.		0