Ian A Prior

List of Publications by Year in Descending Order

116 papers	7,871 citations	43 h-index	88 g-index
124 ext. papers	9,011 ext. citations	6.9 avg, IF	6.19 L-index

#	Paper	IF	Citations
116	Effect of Local Topography on Cell Division of spp.. *Nanomaterials*, **2022**, 12,	5.4	1
115	Novel roles of RTN4 and CLIMP-63 in regulating mitochondrial structure, bioenergetics and apoptosis.. *Cell Death and Disease*, **2022**, 13, 436	9.8	0
114	The importance of Ras in drug resistance in cancer. *British Journal of Pharmacology*, **2021**,	8.6	7
113	One-step preparation of antimicrobial silicone materials based on PDMS and salicylic acid: insights from spatially and temporally resolved techniques. *Npj Biofilms and Microbiomes*, **2021**, 7, 51	8.2	1
112	Absolute Quantitation of GTPase Protein Abundance. *Methods in Molecular Biology*, **2021**, 2262, 65-90	1.4	0
111	Ras Variant Biology and Contributions to Human Disease. *Methods in Molecular Biology*, **2021**, 2262, 3-18	1.4	2
110	Kinobead Profiling Reveals Reprogramming of BCR Signaling in Response to Therapy within Primary CLL Cells. *Clinical Cancer Research*, **2021**, 27, 5647-5659	12.9	0
109	Carcinogen-induced DNA structural distortion differences in the RAS gene isoforms; the importance of local sequence. *BMC Chemistry*, **2021**, 15, 51	3.7	
108	The Frequency of Ras Mutations in Cancer. *Cancer Research*, **2020**, 80, 2969-2974	10.1	177
107	Structural insights into loss of function of a pore forming toxin and its role in pneumococcal adaptation to an intracellular lifestyle. *PLoS Pathogens*, **2020**, 16, e1009016	7.6	3
106	LAP-like non-canonical autophagy and evolution of endocytic vacuoles in pancreatic acinar cells. *Autophagy*, **2020**, 16, 1314-1331	10.2	10
105	Exploring High Aspect Ratio Gold Nanotubes as Cytosolic Agents: Structural Engineering and Uptake into Mesothelioma Cells. *Small*, **2020**, 16, e2003793	11	3
104	Trypanosoma brucei colonizes the tsetse gut via an immature peritrophic matrix in the proventriculus. *Nature Microbiology*, **2020**, 5, 909-916	26.6	19
103	Structural insights into loss of function of a pore forming toxin and its role in pneumococcal adaptation to an intracellular lifestyle **2020**, 16, e1009016		
102	Structural insights into loss of function of a pore forming toxin and its role in pneumococcal adaptation to an intracellular lifestyle **2020**, 16, e1009016		
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99	Structural insights into loss of function of a pore forming toxin and its role in pneumococcal adaptation to an intracellular lifestyle **2020**, 16, e1009016		
98	ER stress-linked autophagy stabilizes apoptosis effector PERP and triggers its co-localization with SERCA2b at ER-plasma membrane junctions. *Cell Death Discovery*, **2019**, 5, 132	6.9	7
97	: an accessible correlative light and electron microscopy approach for investigation of neurons and glia. *Biology Open*, **2019**, 8,	2.2	4
96	Concentric lamellae - novel microanatomical structures in the articular calcified cartilage of mice. *Scientific Reports*, **2019**, 9, 11188	4.9	3
95	DRP-1 functions independently of mitochondrial structural perturbations to facilitate BH3 mimetic-mediated apoptosis. *Cell Death Discovery*, **2019**, 5, 117	6.9	8
94	Exploiting Covalent, H-Bonding, and □Interactions to Design Antibacterial PDMS Interfaces That Load and Release Salicylic Acid.. *ACS Applied Bio Materials*, **2019**, 2, 4801-4811	4.1	5
93	Targeting centrosome amplification, an AchillesQheel of cancer. *Biochemical Society Transactions*, **2019**, 47, 1209-1222	5.1	14
92	Isoform-specific Ras signaling is growth factor dependent. *Molecular Biology of the Cell*, **2019**, 30, 1108-1117	3.7	13
91	Fibroblast Growth Factor 2 lethally sensitizes cancer cells to stress-targeted therapeutic inhibitors. *Molecular Oncology*, **2019**, 13, 290-306	7.9	12
90	The deubiquitylase USP15 regulates topoisomerase II alpha to maintain genome integrity. *Oncogene*, **2018**, 37, 2326-2342	9.2	18
89	New Perspectives, Opportunities, and Challenges in Exploring the Human Protein Kinome. *Cancer Research*, **2018**, 78, 15-29	10.1	81
88	RAS variant signalling. *Biochemical Society Transactions*, **2018**, 46, 1325-1332	5.1	33
87	Long-Chain n-3 Fatty Acids Attenuate Oncogenic KRas-Driven Proliferation by Altering Plasma Membrane Nanoscale Proteolipid Composition. *Cancer Research*, **2018**, 78, 3899-3912	10.1	17
86	Quantification of spatiotemporal patterns of Ras isoform expression during development. *Scientific Reports*, **2017**, 7, 41297	4.9	28
85	Conserved effects and altered trafficking of Cetuximab antibodies conjugated to gold nanoparticles with precise control of their number and orientation. *Nanoscale*, **2017**, 9, 6111-6121	7.7	25
84	Microtubule organization within mitotic spindles revealed by serial block face scanning electron microscopy and image analysis. *Journal of Cell Science*, **2017**, 130, 1845-1855	5.3	31
83	Serial block-face scanning electron microscopy applied to study the trafficking of 8D3-coated gold nanoparticles at the blood-brain barrier. *Histochemistry and Cell Biology*, **2017**, 148, 3-12	2.4	10
82	Regulation of the cell cycle and centrosome biology by deubiquitylases. *Biochemical Society Transactions*, **2017**, 45, 1125-1136	5.1	21

81	Modular approach for bimodal antibacterial surfaces combining photo-switchable activity and sustained biocidal release. *Scientific Reports*, **2017**, 7, 5259	4.9	30
80	Modulating Protein-Protein Interactions of the Mitotic Polo-like Kinases to Target Mutant KRAS. *Cell Chemical Biology*, **2017**, 24, 1017-1028.e7	8.2	20
79	3D-CLEM Reveals that a Major Portion of Mitotic Chromosomes Is Not Chromatin. *Molecular Cell*, **2016**, 64, 790-802	17.6	60
78	Feedback activation of neurofibromin terminates growth factor-induced Ras activation. *Cell Communication and Signaling*, **2016**, 14, 5	7.5	25
77	The endoplasmic reticulum remains functionally connected by vesicular transport after its fragmentation in cells expressing Z-1-antitrypsin. *FASEB Journal*, **2016**, 30, 4083-4097	0.9	15
76	Differential reprogramming of isogenic colorectal cancer cells by distinct activating KRAS mutations. *Journal of Proteome Research*, **2015**, 14, 1535-46	5.6	42
75	The role of Ca2+ influx in endocytic vacuole formation in pancreatic acinar cells. *Biochemical Journal* , **2015**, 465, 405-12	3.8	26
74	Comparative proteomic analysis of compartmentalised Ras signalling. *Scientific Reports*, **2015**, 5, 17307	4.9	8
73	Absolute Quantification of Endogenous Ras Isoform Abundance. *PLoS ONE*, **2015**, 10, e0142674	3.7	22
72	The mesh is a network of microtubule connectors that stabilizes individual kinetochore fibers of the mitotic spindle. *ELife*, **2015**, 4,	8.9	39
71	Electron microscopy methods for studying plasma membranes. *Methods in Molecular Biology*, **2015**, 1232, 137-51	1.4	1
70	Decoding RAS isoform and codon-specific signalling. *Biochemical Society Transactions*, **2014**, 42, 742-6	5.1	10
69	Plasticity of mammary cell boundaries governed by EGF and actin remodeling. *Cell Reports*, **2014**, 8, 1722-1730	10.3	9
68	Quantitative proteomic analysis of compartmentalized signaling networks. *Methods in Enzymology*, **2014**, 535, 309-25	1.7	2
67	The neuroendocrine phenotype of gastric myofibroblasts and its loss with cancer progression. *Carcinogenesis*, **2014**, 35, 1798-806	4.6	16
66	Studying kinetochore-fiber ultrastructure using correlative light-electron microscopy. *Methods in Cell Biology*, **2013**, 115, 327-342	1.8	10
65	Ras palmitoylation is necessary for N-Ras activation and signal propagation in growth factor signalling. *Biochemical Journal*, **2013**, 454, 323-32	3.8	22
64	Compartmentalized Ras signaling differentially contributes to phenotypic outputs. *Cellular Signalling*, **2013**, 25, 1748-53	4.9	20

63	Oncogenic K-ras segregates at spatially distinct plasma membrane signaling platforms according to its phosphorylation status. *Journal of Cell Science*, **2013**, 126, 4553-9	5.3	28
62	CD317/tetherin is an organiser of membrane microdomains. *Journal of Cell Science*, **2013**, 126, 1553-64	5.3	37
61	The role of palmitoylation in regulating Ras localization and function. *Biochemical Society Transactions*, **2013**, 41, 79-83	5.1	45
60	Pronounced in vivo hemoglobin polymerization in red blood cells of Gulf toadfish: a general role for hemoglobin aggregation in vertebrate hemoparasite defense?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 305, R1190-9	3.2	7
59	Specific removal of TACC3-ch-TOG-clathrin at metaphase deregulates kinetochore fiber tension. *Journal of Cell Science*, **2013**, 126, 2102-13	5.3	53
58	Global snapshot of the influence of endocytosis upon EGF receptor signaling output. *Journal of Proteome Research*, **2012**, 11, 5157-66	5.6	15
57	Ras trafficking, localization and compartmentalized signalling. *Seminars in Cell and Developmental Biology*, **2012**, 23, 145-53	7.5	156
56	Mercaptocarborane-capped gold nanoparticles: electron pools and ion traps with switchable hydrophilicity. *Journal of the American Chemical Society*, **2012**, 134, 212-21	16.4	117
55	A comprehensive survey of Ras mutations in cancer. *Cancer Research*, **2012**, 72, 2457-67	10.1	1155
54	Transport of fibroblast growth factor 2 in the pericellular matrix is controlled by the spatial distribution of its binding sites in heparan sulfate. *PLoS Biology*, **2012**, 10, e1001361	9.7	84
53	Intracellular mapping with SERS-encoded gold nanostars. *Integrative Biology (United Kingdom)*, **2011**, 3, 922-6	3.7	116
52	Negotiation of intracellular membrane barriers by TAT-modified gold nanoparticles. *ACS Nano*, **2011**, 5, 5195-201	16.7	131
51	Magnetic CoPt nanoparticles as MRI contrast agent for transplanted neural stem cells detection. *Nanoscale*, **2011**, 3, 977-84	7.7	73
50	A TACC3/ch-TOG/clathrin complex stabilises kinetochore fibres by inter-microtubule bridging. *EMBO Journal*, **2011**, 30, 906-19	13	112
49	Acrylate-facilitated cellular uptake of gold nanoparticles. *Small*, **2011**, 7, 1982-6	11	15
48	Aurora A kinase activity is required for localization of TACC3/ch-TOG/clathrin inter-microtubule bridges. *Communicative and Integrative Biology*, **2011**, 4, 409-412	1.7	30
47	Raft protein clustering alters N-Ras membrane interactions and activation pattern. *Molecular and Cellular Biology*, **2011**, 31, 3938-52	4.8	39
46	Aurora A kinase activity is required for localization of TACC3/ch-TOG/clathrin inter-microtubule bridges. *Communicative and Integrative Biology*, **2011**, 4, 409-12	1.7	28

45	Ultrastructural examination of tissue in a patient with alkaptonuric arthropathy reveals a distinct pattern of binding of ochronotic pigment. *Rheumatology*, **2010**, 49, 1412-4	3.9	53
44	Regulatory activity of polyunsaturated fatty acids in T-cell signaling. *Progress in Lipid Research*, **2010**, 49, 250-61	14.3	105
43	Highly Stable Dextran-Coated Quantum Dots for Biomolecular Detection and Cellular Imaging. *Chemistry of Materials*, **2010**, 22, 6361-6369	9.6	28
42	Inflicting controlled nonthermal damage to subcellular structures by laser-activated gold nanoparticles. *Nano Letters*, **2010**, 10, 4549-54	11.5	91
41	Phosphatome profiling reveals PTPN2, PTPRJ and PTEN as potent negative regulators of PKB/Akt activation in Ras-mutated cancer cells. *Biochemical Journal*, **2010**, 426, 65-72	3.8	34
40	Three-dimensional electron microscopic reconstruction of intracellular organellar arrangements in vascular smooth muscle--further evidence of nanospaces and contacts. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 995-8	5.6	3
39	Ribosome-free terminals of rough ER allow formation of STIM1 puncta and segregation of STIM1 from IP(3) receptors. *Current Biology*, **2009**, 19, 1648-53	6.3	104
38	Compartmentalized signalling: cAMP, calcium and Ras. *FEBS Journal*, **2009**, 276, 1789	5.7	
37	Compartmentalized signalling: Ras proteins and signalling nanoclusters. *FEBS Journal*, **2009**, 276, 1817-25	5.7	53
36	Cathepsin L digestion of nanobioconjugates upon endocytosis. *ACS Nano*, **2009**, 3, 2461-8	16.7	100
35	A reliable method for attaching biological molecules to layer-by-layer self-assemblies. *Chemical Communications*, **2009**, 2487-9	5.8	8
34	Variant shape growth of nanoparticles of metallic Fe□t, Fe□d and Fe□t□d alloys. *CrystEngComm*, **2009**, 11, 1309	3.3	47
33	Ras acylation, compartmentalization and signaling nanoclusters (Review). *Molecular Membrane Biology*, **2009**, 26, 80-92	3.4	94
32	Ras isoform abundance and signalling in human cancer cell lines. *Oncogene*, **2008**, 27, 2754-62	9.2	77
31	Docosahexaenoic acid alters the size and distribution of cell surface microdomains. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 466-71	3.8	100
30	Uptake and intracellular fate of surface-modified gold nanoparticles. *ACS Nano*, **2008**, 2, 1639-44	16.7	560
29	S-nitrosylation of syntaxin 1 at Cys(145) is a regulatory switch controlling Munc18-1 binding. *Biochemical Journal*, **2008**, 413, 479-91	3.8	44
28	Palmitoylation and localisation of RAS isoforms are modulated by the hypervariable linker domain. *Journal of Cell Science*, **2008**, 121, 421-7	5.3	93

27	The Vpu-regulated endocytosis of HIV-1 Gag is clathrin-independent. *Virology*, **2007**, 369, 299-308	3.6	20
26	A simple method for preparing spectrally encoded magnetic beads for multiplexed detection. *ACS Nano*, **2007**, 1, 487-93	16.7	55
25	Ras proteins: paradigms for compartmentalised and isoform-specific signalling. *Cellular and Molecular Life Sciences*, **2007**, 64, 2575-89	10.3	98
24	Activation of trypsinogen in large endocytic vacuoles of pancreatic acinar cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 5674-9	11.5	125
23	Magnetic microspheres encoded with photoluminescent quantum dots for multiplexed detection. *Journal of Materials Chemistry*, **2007**, 17, 4400		43
22	The ubiquitin isopeptidase UBPY regulates endosomal ubiquitin dynamics and is essential for receptor down-regulation. *Journal of Biological Chemistry*, **2006**, 281, 12618-24	5.4	191
21	Vpu and Tsg101 regulate intracellular targeting of the human immunodeficiency virus type 1 core protein precursor Pr55gag. *Journal of Virology*, **2006**, 80, 3765-72	6.6	46
20	Control of growth factor receptor dynamics by reversible ubiquitination. *Biochemical Society Transactions*, **2006**, 34, 754-6	5.1	24
19	Electron microscopic imaging of Ras signaling domains. *Methods*, **2005**, 37, 165-72	4.6	44
18	Traffic of Kv4 K+ channels mediated by KChIP1 is via a novel post-ER vesicular pathway. *Journal of Cell Biology*, **2005**, 171, 459-69	7.3	83
17	Individual palmitoyl residues serve distinct roles in H-ras trafficking, microlocalization, and signaling. *Molecular and Cellular Biology*, **2005**, 25, 6722-33	4.8	177
16	Three separable domains regulate GTP-dependent association of H-ras with the plasma membrane. *Molecular and Cellular Biology*, **2004**, 24, 6799-810	4.8	138
15	Plasma membrane microdomains: organization, function and trafficking. *Molecular Membrane Biology*, **2004**, 21, 193-205	3.4	170
14	C-terminal sequences in R-Ras are involved in integrin regulation and in plasma membrane microdomain distribution. *Biochemical and Biophysical Research Communications*, **2003**, 311, 829-38	3.4	24
13	Direct visualization of Ras proteins in spatially distinct cell surface microdomains. *Journal of Cell Biology*, **2003**, 160, 165-70	7.3	617
12	Caveolin interacts with the angiotensin II type 1 receptor during exocytic transport but not at the plasma membrane. *Journal of Biological Chemistry*, **2003**, 278, 23738-46	5.4	100
11	Observing cell surface signaling domains using electron microscopy. *Science Signaling*, **2003**, 2003, PL9	8.8	47
10	Flotillin-1/reggie-2 traffics to surface raft domains via a novel golgi-independent pathway. Identification of a novel membrane targeting domain and a role for palmitoylation. *Journal of Biological Chemistry*, **2002**, 277, 48834-41	5.4	159

9	Inhibition of lipid raft-dependent signaling by a dystrophy-associated mutant of caveolin-3. *Journal of Biological Chemistry*, **2002**, 277, 17944-9	5.4	42
8	GTP-dependent segregation of H-ras from lipid rafts is required for biological activity. *Nature Cell Biology*, **2001**, 3, 368-75	23.4	457
7	Which Ras rides the raft? - Reply. *Nature Cell Biology*, **2001**, 3, E172-E172	23.4	2
6	Detection of thiol modification following generation of reactive nitrogen species: analysis of synaptic vesicle proteins. *Biochimica Et Biophysica Acta - General Subjects*, **2000**, 1475, 281-6	4	14
5	H-ras but not K-ras traffics to the plasma membrane through the exocytic pathway. *Molecular and Cellular Biology*, **2000**, 20, 2475-87	4.8	358
4	Localization of a class II phosphatidylinositol 3-kinase, PI3KC2alpha, to clathrin-coated vesicles. *Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications*, **1999**, 1, 162-6		19
3	Evaluation of X-ray microfluorescence spectrometry for the elemental analysis of firearm discharge residues. *Forensic Science International*, **1998**, 97, 21-36	2.6	36
2	Glutamate uptake occurs at an early stage of synaptic vesicle recycling. *Current Biology*, **1997**, 7, 353-6	6.3	14
1	Eps8 is a convergence point integrating EGFR and integrin trafficking and crosstalk		3