

# Ian A Prior

## List of Publications by Year in descending order

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117  
papers

9,849  
citations

53794

45  
h-index

37204

96  
g-index

125  
all docs

125  
docs citations

125  
times ranked

14361  
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of Ras in drug resistance in cancer. British Journal of Pharmacology, 2022, 179, 2844-2867.	5.4	26
2	Effect of Local Topography on Cell Division of Staphylococcus spp.. Nanomaterials, 2022, 12, 683.	4.1	4
3	Novel roles of RTN4 and CLIMP-63 in regulating mitochondrial structure, bioenergetics and apoptosis. Cell Death and Disease, 2022, 13, 436.	6.3	7
4	Absolute Quantitation of GTPase Protein Abundance. Methods in Molecular Biology, 2021, 2262, 65-90.	0.9	2
5	Ras Variant Biology and Contributions to Human Disease. Methods in Molecular Biology, 2021, 2262, 3-18.	0.9	3
6	Danger zone. ELife, 2021, 10, .	6.0	2
7	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.	6.4	4
8	Kinobead Profiling Reveals Reprogramming of BCR Signaling in Response to Therapy within Primary CLL Cells. Clinical Cancer Research, 2021, 27, 5647-5659.	7.0	3
9	Carcinogen-induced DNA structural distortion differences in the RAS gene isoforms; the importance of local sequence. BMC Chemistry, 2021, 15, 51.	3.8	3
10	LAP-like non-canonical autophagy and evolution of endocytic vacuoles in pancreatic acinar cells. Autophagy, 2020, 16, 1314-1331.	9.1	15
11	Exploring High Aspect Ratio Gold Nanotubes as Cytosolic Agents: Structural Engineering and Uptake into Mesothelioma Cells. Small, 2020, 16, e2003793.	10.0	7
12	The Frequency of Ras Mutations in Cancer. Cancer Research, 2020, 80, 2969-2974.	0.9	515
13	Trypanosoma brucei colonizes the tsetse gut via an immature peritrophic matrix in the proventriculus. Nature Microbiology, 2020, 5, 909-916.	13.3	37
14	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.	4.7	13
15	Title is missing!. , 2020, 16, e1009016.		0
16	Title is missing!. , 2020, 16, e1009016.		0
17	Title is missing!. , 2020, 16, e1009016.		0
18	Title is missing!. , 2020, 16, e1009016.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 16, e1009016.		0
20	Concentric lamellae â€“ novel microanatomical structures in the articular calcified cartilage of mice. Scientific Reports, 2019, 9, 11188.	3.3	5
21	DRP-1 functions independently of mitochondrial structural perturbations to facilitate BH3 mimetic-mediated apoptosis. Cell Death Discovery, 2019, 5, 117.	4.7	19
22	Exploiting Covalent, H-Bonding, and Î€â€“Î€ Interactions to Design Antibacterial PDMS Interfaces That Load and Release Salicylic Acid. ACS Applied Bio Materials, 2019, 2, 4801-4811.	4.6	12
23	ER stress-linked autophagy stabilizes apoptosis effector PERP and triggers its co-localization with SERCA2b at ERâ€“plasma membrane junctions. Cell Death Discovery, 2019, 5, 132.	4.7	12
24	<i>SuperCLEM:</i> an accessible correlative light and electron microscopy approach for investigation of neurons and glia in vitro. Biology Open, 2019, 8, .	1.2	9
25	Isoform-specific Ras signaling is growth factor dependent. Molecular Biology of the Cell, 2019, 30, 1108-1117.	2.1	23
26	Fibroblast Growth Factor 2 lethally sensitizes cancer cells to stressâ€“targeted therapeutic inhibitors. Molecular Oncology, 2019, 13, 290-306.	4.6	18
27	Targeting centrosome amplification, an Achilles' heel of cancer. Biochemical Society Transactions, 2019, 47, 1209-1222.	3.4	40
28	The deubiquitylase USP15 regulates topoisomerase II alpha to maintain genome integrity. Oncogene, 2018, 37, 2326-2342.	5.9	29
29	New Perspectives, Opportunities, and Challenges in Exploring the Human Protein Kinome. Cancer Research, 2018, 78, 15-29.	0.9	124
30	RAS variant signalling. Biochemical Society Transactions, 2018, 46, 1325-1332.	3.4	61
31	Long-Chain n-3 Fatty Acids Attenuate Oncogenic KRas-Driven Proliferation by Altering Plasma Membrane Nanoscale Proteolipid Composition. Cancer Research, 2018, 78, 3899-3912.	0.9	29
32	Quantification of spatiotemporal patterns of Ras isoform expression during development. Scientific Reports, 2017, 7, 41297.	3.3	45
33	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.	5.6	33
34	Microtubule organization within mitotic spindles revealed by serial block face scanning EM and image analysis. Journal of Cell Science, 2017, 130, 1845-1855.	2.0	39
35	Serial block-face scanning electron microscopy applied to study the trafficking of 8D3-coated gold nanoparticles at the bloodâ€“brain barrier. Histochemistry and Cell Biology, 2017, 148, 3-12.	1.7	13
36	Regulation of the cell cycle and centrosome biology by deubiquitylases. Biochemical Society Transactions, 2017, 45, 1125-1136.	3.4	30

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37	Modular approach for bimodal antibacterial surfaces combining photo-switchable activity and sustained biocidal release. Scientific Reports, 2017, 7, 5259.	3.3	39
38	Modulating Protein-Protein Interactions of the Mitotic Polo-like Kinases to Target Mutant KRAS. Cell Chemical Biology, 2017, 24, 1017-1028.e7.	5.2	25
39	The endoplasmic reticulum remains functionally connected by vesicular transport after its fragmentation in cells expressing Z $\alpha$ 1 $\alpha$ 1 antitrypsin. FASEB Journal, 2016, 30, 4083-4097.	0.5	22
40	3D-CLEM Reveals that a Major Portion of Mitotic Chromosomes Is Not Chromatin. Molecular Cell, 2016, 64, 790-802.	9.7	96
41	Feedback activation of neurofibromin terminates growth factor-induced Ras activation. Cell Communication and Signaling, 2016, 14, 5.	6.5	33
42	Comparative proteomic analysis of compartmentalised Ras signalling. Scientific Reports, 2015, 5, 17307.	3.3	10
43	Differential Reprogramming of Isogenic Colorectal Cancer Cells by Distinct Activating KRAS Mutations. Journal of Proteome Research, 2015, 14, 1535-1546.	3.7	65
44	The role of Ca <sup>2+</sup> influx in endocytic vacuole formation in pancreatic acinar cells. Biochemical Journal, 2015, 465, 405-412.	3.7	30
45	Absolute Quantification of Endogenous Ras Isoform Abundance. PLoS ONE, 2015, 10, e0142674.	2.5	34
46	The mesh is a network of microtubule connectors that stabilizes individual kinetochore fibers of the mitotic spindle. ELife, 2015, 4, .	6.0	59
47	Electron Microscopy Methods for Studying Plasma Membranes. Methods in Molecular Biology, 2015, 1232, 137-151.	0.9	4
48	Quantitative Proteomic Analysis of Compartmentalized Signaling Networks. Methods in Enzymology, 2014, 535, 309-325.	1.0	2
49	The neuroendocrine phenotype of gastric myofibroblasts and its loss with cancer progression. Carcinogenesis, 2014, 35, 1798-1806.	2.8	16
50	Decoding RAS isoform and codon-specific signalling. Biochemical Society Transactions, 2014, 42, 742-746.	3.4	14
51	Plasticity of Mammary Cell Boundaries Governed by EGF and Actin Remodeling. Cell Reports, 2014, 8, 1722-1730.	6.4	11
52	Studying Kinetochore-Fiber Ultrastructure Using Correlative Light-Electron Microscopy. Methods in Cell Biology, 2013, 115, 327-342.	1.1	12
53	Ras palmitoylation is necessary for N-Ras activation and signal propagation in growth factor signalling. Biochemical Journal, 2013, 454, 323-332.	3.7	23
54	Compartmentalized Ras signaling differentially contributes to phenotypic outputs. Cellular Signalling, 2013, 25, 1748-1753.	3.6	22

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55	Oncogenic K-Ras segregates at spatially distinct plasma membrane signaling platforms according to its phosphorylation status. <i>Journal of Cell Science</i> , 2013, 126, 4553-9.	2.0	29
56	CD317/Tetherin is an organiser of membrane microdomains. <i>Journal of Cell Science</i> , 2013, 126, 1553-64.	2.0	40
57	The role of palmitoylation in regulating Ras localization and function. <i>Biochemical Society Transactions</i> , 2013, 41, 79-83.	3.4	53
58	Pronounced in vivo hemoglobin polymerization in red blood cells of Gulf toadfish: a general role for hemoglobin aggregation in vertebrate hemoparasite defense?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R1190-R1199.	1.8	8
59	Specific removal of TACC3/ch-TOG/clathrin at metaphase deregulates kinetochore fiber tension. <i>Journal of Cell Science</i> , 2013, 126, 2102-13.	2.0	75
60	Transport of Fibroblast Growth Factor 2 in the Pericellular Matrix Is Controlled by the Spatial Distribution of Its Binding Sites in Heparan Sulfate. <i>PLoS Biology</i> , 2012, 10, e1001361.	5.6	103
61	Putting signalling into context. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 125.	5.0	0
62	Global Snapshot of the Influence of Endocytosis upon EGF Receptor Signaling Output. <i>Journal of Proteome Research</i> , 2012, 11, 5157-5166.	3.7	16
63	Ras trafficking, localization and compartmentalized signalling. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 145-153.	5.0	191
64	Mercaptocarborane-Capped Gold Nanoparticles: Electron Pools and Ion Traps with Switchable Hydrophilicity. <i>Journal of the American Chemical Society</i> , 2012, 134, 212-221.	13.7	135
65	A Comprehensive Survey of Ras Mutations in Cancer. <i>Cancer Research</i> , 2012, 72, 2457-2467.	0.9	1,602
66	Intracellular mapping with SERS-encoded gold nanostars. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 922.	1.3	127
67	Negotiation of Intracellular Membrane Barriers by TAT-Modified Gold Nanoparticles. <i>ACS Nano</i> , 2011, 5, 5195-5201.	14.6	139
68	Magnetic CoPt nanoparticles as MRI contrast agent for transplanted neural stem cells detection. <i>Nanoscale</i> , 2011, 3, 977.	5.6	91
69	A TACC3/ch-TOG/clathrin complex stabilises kinetochore fibres by inter-microtubule bridging. <i>EMBO Journal</i> , 2011, 30, 906-919.	7.8	143
70	Acrylate- $\epsilon$ -Facilitated Cellular Uptake of Gold Nanoparticles. <i>Small</i> , 2011, 7, 1982-1986.	10.0	17
71	Aurora A kinase activity is required for localization of TACC3/ch-TOG/clathrin inter-microtubule bridges. <i>Communicative and Integrative Biology</i> , 2011, 4, 409-412.	1.4	34
72	Raft Protein Clustering Alters N-Ras Membrane Interactions and Activation Pattern. <i>Molecular and Cellular Biology</i> , 2011, 31, 3938-3952.	2.3	42

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73	Aurora A kinase activity is required for localization of TACC3/ch-TOC/clathrin inter-microtubule bridges. <i>Communicative and Integrative Biology</i> , 2011, 4, 409-12.	1.4	38
74	Phosphatome profiling reveals PTPN2, PTPRJ and PTEN as potent negative regulators of PKB/Akt activation in Ras-mutated cancer cells. <i>Biochemical Journal</i> , 2010, 426, 65-72.	3.7	39
75	Ultrastructural examination of tissue in a patient with alkaptonuric arthropathy reveals a distinct pattern of binding of ochronotic pigment. <i>Rheumatology</i> , 2010, 49, 1412-1414.	1.9	62
76	Regulatory activity of polyunsaturated fatty acids in T-cell signaling. <i>Progress in Lipid Research</i> , 2010, 49, 250-261.	11.6	131
77	Highly Stable Dextran-Coated Quantum Dots for Biomolecular Detection and Cellular Imaging. <i>Chemistry of Materials</i> , 2010, 22, 6361-6369.	6.7	34
78	Inflicting Controlled Nonthermal Damage to Subcellular Structures by Laser-Activated Gold Nanoparticles. <i>Nano Letters</i> , 2010, 10, 4549-4554.	9.1	98
79	Three-dimensional electron microscopic reconstruction of intracellular organellar arrangements in vascular smooth muscle – further evidence of nanospaces and contacts. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 995-998.	3.6	5
80	Ribosome-free Terminals of Rough ER Allow Formation of STIM1 Puncta and Segregation of STIM1 from IP3 Receptors. <i>Current Biology</i> , 2009, 19, 1648-1653.	3.9	114
81	Compartmentalized signalling: cAMP, calcium and Ras. <i>FEBS Journal</i> , 2009, 276, 1789-1789.	4.7	0
82	Compartmentalized signalling: Ras proteins and signalling nanoclusters. <i>FEBS Journal</i> , 2009, 276, 1817-1825.	4.7	57
83	Cathepsin L Digestion of Nanobioconjugates upon Endocytosis. <i>ACS Nano</i> , 2009, 3, 2461-2468.	14.6	110
84	A reliable method for attaching biological molecules to layer-by-layer self-assemblies. <i>Chemical Communications</i> , 2009, , 2487.	4.1	9
85	Variant shape growth of nanoparticles of metallic Fe-Pt, Fe-Pd and Fe-Pt-Pd alloys. <i>CrystEngComm</i> , 2009, 11, 1309.	2.6	47
86	Ras acylation, compartmentalization and signaling nanoclusters (Review). <i>Molecular Membrane Biology</i> , 2009, 26, 80-92.	2.0	113
87	Ras isoform abundance and signalling in human cancer cell lines. <i>Oncogene</i> , 2008, 27, 2754-2762.	5.9	92
88	Docosahexaenoic acid alters the size and distribution of cell surface microdomains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 466-471.	2.6	117
89	Uptake and Intracellular Fate of Surface-Modified Gold Nanoparticles. <i>ACS Nano</i> , 2008, 2, 1639-1644.	14.6	615
90	S-nitrosylation of syntaxin 1 at Cys145 is a regulatory switch controlling Munc18-1 binding. <i>Biochemical Journal</i> , 2008, 413, 479-491.	3.7	55

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91	Palmitoylation and localisation of RAS isoforms are modulated by the hypervariable linker domain. <i>Journal of Cell Science</i> , 2008, 121, 421-427.	2.0	109
92	Activation of trypsinogen in large endocytic vacuoles of pancreatic acinar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5674-5679.	7.1	145
93	Magnetic microspheres encoded with photoluminescent quantum dots for multiplexed detection. <i>Journal of Materials Chemistry</i> , 2007, 17, 4400.	6.7	47
94	The Vpu-regulated endocytosis of HIV-1 Gag is clathrin-independent. <i>Virology</i> , 2007, 369, 299-308.	2.4	21
95	A Simple Method for Preparing Spectrally Encoded Magnetic Beads for Multiplexed Detection. <i>ACS Nano</i> , 2007, 1, 487-493.	14.6	58
96	Ras proteins: paradigms for compartmentalised and isoform-specific signalling. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2575-2589.	5.4	110
97	Control of growth factor receptor dynamics by reversible ubiquitination. <i>Biochemical Society Transactions</i> , 2006, 34, 754-756.	3.4	25
98	The Ubiquitin Isopeptidase UBPY Regulates Endosomal Ubiquitin Dynamics and Is Essential for Receptor Down-regulation. <i>Journal of Biological Chemistry</i> , 2006, 281, 12618-12624.	3.4	216
99	Vpu and Tsg101 Regulate Intracellular Targeting of the Human Immunodeficiency Virus Type 1 Core Protein Precursor Pr55 gag. <i>Journal of Virology</i> , 2006, 80, 3765-3772.	3.4	47
100	Traffic of Kv4 K <sup>+</sup> channels mediated by KChIP1 is via a novel post-ER vesicular pathway. <i>Journal of Cell Biology</i> , 2005, 171, 459-469.	5.2	87
101	Individual Palmitoyl Residues Serve Distinct Roles in H-Ras Trafficking, Microlocalization, and Signaling. <i>Molecular and Cellular Biology</i> , 2005, 25, 6722-6733.	2.3	187
102	Electron microscopic imaging of Ras signaling domains. <i>Methods</i> , 2005, 37, 165-172.	3.8	49
103	Three Separable Domains Regulate GTP-Dependent Association of H-ras with the Plasma Membrane. <i>Molecular and Cellular Biology</i> , 2004, 24, 6799-6810.	2.3	150
104	Plasma membrane microdomains: Organization, function and trafficking (Review). <i>Molecular Membrane Biology</i> , 2004, 21, 193-205.	2.0	186
105	C-terminal sequences in R-Ras are involved in integrin regulation and in plasma membrane microdomain distribution. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 829-838.	2.1	24
106	Direct visualization of Ras proteins in spatially distinct cell surface microdomains. <i>Journal of Cell Biology</i> , 2003, 160, 165-170.	5.2	699
107	Caveolin Interacts with the Angiotensin II Type 1 Receptor during Exocytic Transport but Not at the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 23738-23746.	3.4	110
108	Observing Cell Surface Signaling Domains Using Electron Microscopy. <i>Science Signaling</i> , 2003, 2003, pl9-pl9.	3.6	58

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109	Flotillin-1/Reggie-2 Traffics to Surface Raft Domains via a Novel Golgi-independent Pathway. Journal of Biological Chemistry, 2002, 277, 48834-48841.	3.4	200
110	Inhibition of Lipid Raft-dependent Signaling by a Dystrophy-associated Mutant of Caveolin-3. Journal of Biological Chemistry, 2002, 277, 17944-17949.	3.4	43
111	GTP-dependent segregation of H-ras from lipid rafts is required for biological activity. Nature Cell Biology, 2001, 3, 368-375.	10.3	492
112	Which Ras rides the raft? - Reply. Nature Cell Biology, 2001, 3, E172-E172.	10.3	4
113	Detection of thiol modification following generation of reactive nitrogen species: analysis of synaptic vesicle proteins. Biochimica Et Biophysica Acta - General Subjects, 2000, 1475, 281-286.	2.4	16
114	H-ras but Not K-ras Traffics to the Plasma Membrane through the Exocytic Pathway. Molecular and Cellular Biology, 2000, 20, 2475-2487.	2.3	397
115	Localization of a Class II Phosphatidylinositol 3-Kinase, PI3KC2Î±, to Clathrin-Coated Vesicles. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 1999, 1, 162-166.	1.6	23
116	Evaluation of X-ray microfluorescence spectrometry for the elemental analysis of firearm discharge residues. Forensic Science International, 1998, 97, 21-36.	2.2	42
117	Glutamate uptake occurs at an early stage of synaptic vesicle recycling. Current Biology, 1997, 7, 353-356.	3.9	15