

# Ian A Prior

## List of Publications by Year in descending order

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117  
papers

9,849  
citations

53660

45  
h-index

37111

96  
g-index

125  
all docs

125  
docs citations

125  
times ranked

14361  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Survey of Ras Mutations in Cancer. <i>Cancer Research</i> , 2012, 72, 2457-2467.	0.4	1,602
2	Direct visualization of Ras proteins in spatially distinct cell surface microdomains. <i>Journal of Cell Biology</i> , 2003, 160, 165-170.	2.3	699
3	Uptake and Intracellular Fate of Surface-Modified Gold Nanoparticles. <i>ACS Nano</i> , 2008, 2, 1639-1644.	7.3	615
4	The Frequency of Ras Mutations in Cancer. <i>Cancer Research</i> , 2020, 80, 2969-2974.	0.4	515
5	GTP-dependent segregation of H-ras from lipid rafts is required for biological activity. <i>Nature Cell Biology</i> , 2001, 3, 368-375.	4.6	492
6	H-ras but Not K-ras Traffics to the Plasma Membrane through the Exocytic Pathway. <i>Molecular and Cellular Biology</i> , 2000, 20, 2475-2487.	1.1	397
7	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.	1.6	216
8	Flotillin-1/Reggie-2 Traffics to Surface Raft Domains via a Novel Golgi-independent Pathway. <i>Journal of Biological Chemistry</i> , 2002, 277, 48834-48841.	1.6	200
9	Ras trafficking, localization and compartmentalized signalling. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 145-153.	2.3	191
10	Individual Palmitoyl Residues Serve Distinct Roles in H-Ras Trafficking, Microlocalization, and Signaling. <i>Molecular and Cellular Biology</i> , 2005, 25, 6722-6733.	1.1	187
11	Plasma membrane microdomains: Organization, function and trafficking (Review). <i>Molecular Membrane Biology</i> , 2004, 21, 193-205.	2.0	186
12	Three Separable Domains Regulate GTP-Dependent Association of H-ras with the Plasma Membrane. <i>Molecular and Cellular Biology</i> , 2004, 24, 6799-6810.	1.1	150
13	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.	3.3	145
14	A TACC3/ch-TOG/clathrin complex stabilises kinetochore fibres by inter-microtubule bridging. <i>EMBO Journal</i> , 2011, 30, 906-919.	3.5	143
15	Negotiation of Intracellular Membrane Barriers by TAT-Modified Gold Nanoparticles. <i>ACS Nano</i> , 2011, 5, 5195-5201.	7.3	139
16	Mercaptocarborane-Capped Gold Nanoparticles: Electron Pools and Ion Traps with Switchable Hydrophilicity. <i>Journal of the American Chemical Society</i> , 2012, 134, 212-221.	6.6	135
17	Regulatory activity of polyunsaturated fatty acids in T-cell signaling. <i>Progress in Lipid Research</i> , 2010, 49, 250-261.	5.3	131
18	Intracellular mapping with SERS-encoded gold nanostars. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 922.	0.6	127

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19	New Perspectives, Opportunities, and Challenges in Exploring the Human Protein Kinome. <i>Cancer Research</i> , 2018, 78, 15-29.	0.4	124
20	Docosahexaenoic acid alters the size and distribution of cell surface microdomains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 466-471.	1.4	117
21	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.	1.8	114
22	Ras acylation, compartmentalization and signaling nanoclusters (Review). <i>Molecular Membrane Biology</i> , 2009, 26, 80-92.	2.0	113
23	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.	1.6	110
24	Ras proteins: paradigms for compartmentalised and isoform-specific signalling. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2575-2589.	2.4	110
25	Cathepsin L Digestion of Nanobioconjugates upon Endocytosis. <i>ACS Nano</i> , 2009, 3, 2461-2468.	7.3	110
26	Palmitoylation and localisation of RAS isoforms are modulated by the hypervariable linker domain. <i>Journal of Cell Science</i> , 2008, 121, 421-427.	1.2	109
27	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.	2.6	103
28	Inflicting Controlled Nonthermal Damage to Subcellular Structures by Laser-Activated Gold Nanoparticles. <i>Nano Letters</i> , 2010, 10, 4549-4554.	4.5	98
29	3D-CLEM Reveals that a Major Portion of Mitotic Chromosomes Is Not Chromatin. <i>Molecular Cell</i> , 2016, 64, 790-802.	4.5	96
30	Ras isoform abundance and signalling in human cancer cell lines. <i>Oncogene</i> , 2008, 27, 2754-2762.	2.6	92
31	Magnetic CoPt nanoparticles as MRI contrast agent for transplanted neural stem cells detection. <i>Nanoscale</i> , 2011, 3, 977.	2.8	91
32	Traffic of Kv4 K+ channels mediated by KCHIP1 is via a novel post-ER vesicular pathway. <i>Journal of Cell Biology</i> , 2005, 171, 459-469.	2.3	87
33	Specific removal of TACC3/ch-TOG/clathrin at metaphase deregulates kinetochore fiber tension. <i>Journal of Cell Science</i> , 2013, 126, 2102-13.	1.2	75
34	Differential Reprogramming of Isogenic Colorectal Cancer Cells by Distinct Activating KRAS Mutations. <i>Journal of Proteome Research</i> , 2015, 14, 1535-1546.	1.8	65
35	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.	0.9	62
36	RAS variant signalling. <i>Biochemical Society Transactions</i> , 2018, 46, 1325-1332.	1.6	61

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37	The mesh is a network of microtubule connectors that stabilizes individual kinetochore fibers of the mitotic spindle. <i>ELife</i> , 2015, 4, .	2.8	59
38	Observing Cell Surface Signaling Domains Using Electron Microscopy. <i>Science Signaling</i> , 2003, 2003, pl9-pl9.	1.6	58
39	A Simple Method for Preparing Spectrally Encoded Magnetic Beads for Multiplexed Detection. <i>ACS Nano</i> , 2007, 1, 487-493.	7.3	58
40	Compartmentalized signalling: Ras proteins and signalling nanoclusters. <i>FEBS Journal</i> , 2009, 276, 1817-1825.	2.2	57
41	S-nitrosylation of syntaxin 1 at Cys145 is a regulatory switch controlling Munc18-1 binding. <i>Biochemical Journal</i> , 2008, 413, 479-491.	1.7	55
42	The role of palmitoylation in regulating Ras localization and function. <i>Biochemical Society Transactions</i> , 2013, 41, 79-83.	1.6	53
43	Electron microscopic imaging of Ras signaling domains. <i>Methods</i> , 2005, 37, 165-172.	1.9	49
44	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.	1.5	47
45	Magnetic microspheres encoded with photoluminescent quantum dots for multiplexed detection. <i>Journal of Materials Chemistry</i> , 2007, 17, 4400.	6.7	47
46	Variant shape growth of nanoparticles of metallic Fe@Pt, Fe@Pd and Fe@Pt@Pd alloys. <i>CrystEngComm</i> , 2009, 11, 1309.	1.3	47
47	Quantification of spatiotemporal patterns of Ras isoform expression during development. <i>Scientific Reports</i> , 2017, 7, 41297.	1.6	45
48	Inhibition of Lipid Raft-dependent Signaling by a Dystrophy-associated Mutant of Caveolin-3. <i>Journal of Biological Chemistry</i> , 2002, 277, 17944-17949.	1.6	43
49	Evaluation of X-ray microfluorescence spectrometry for the elemental analysis of firearm discharge residues. <i>Forensic Science International</i> , 1998, 97, 21-36.	1.3	42
50	Raft Protein Clustering Alters N-Ras Membrane Interactions and Activation Pattern. <i>Molecular and Cellular Biology</i> , 2011, 31, 3938-3952.	1.1	42
51	CD317/Tetherin is an organiser of membrane microdomains. <i>Journal of Cell Science</i> , 2013, 126, 1553-64.	1.2	40
52	Targeting centrosome amplification, an Achilles' heel of cancer. <i>Biochemical Society Transactions</i> , 2019, 47, 1209-1222.	1.6	40
53	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.	1.7	39
54	Microtubule organization within mitotic spindles revealed by serial block face scanning EM and image analysis. <i>Journal of Cell Science</i> , 2017, 130, 1845-1855.	1.2	39

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55	Modular approach for bimodal antibacterial surfaces combining photo-switchable activity and sustained biocidal release. <i>Scientific Reports</i> , 2017, 7, 5259.	1.6	39
56	Aurora A kinase activity is required for localization of TACC3/ch-TOG/clathrin inter-microtubule bridges. <i>Communicative and Integrative Biology</i> , 2011, 4, 409-12.	0.6	38
57	<i>Trypanosoma brucei</i> colonizes the tsetse gut via an immature peritrophic matrix in the proventriculus. <i>Nature Microbiology</i> , 2020, 5, 909-916.	5.9	37
58	Highly Stable Dextran-Coated Quantum Dots for Biomolecular Detection and Cellular Imaging. <i>Chemistry of Materials</i> , 2010, 22, 6361-6369.	3.2	34
59	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.	0.6	34
60	Absolute Quantification of Endogenous Ras Isoform Abundance. <i>PLoS ONE</i> , 2015, 10, e0142674.	1.1	34
61	Feedback activation of neurofibromin terminates growth factor-induced Ras activation. <i>Cell Communication and Signaling</i> , 2016, 14, 5.	2.7	33
62	Conserved effects and altered trafficking of Cetuximab antibodies conjugated to gold nanoparticles with precise control of their number and orientation. <i>Nanoscale</i> , 2017, 9, 6111-6121.	2.8	33
63	The role of Ca <sup>2+</sup> influx in endocytic vacuole formation in pancreatic acinar cells. <i>Biochemical Journal</i> , 2015, 465, 405-412.	1.7	30
64	Regulation of the cell cycle and centrosome biology by deubiquitylases. <i>Biochemical Society Transactions</i> , 2017, 45, 1125-1136.	1.6	30
65	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.	1.2	29
66	The deubiquitylase USP15 regulates topoisomerase II alpha to maintain genome integrity. <i>Oncogene</i> , 2018, 37, 2326-2342.	2.6	29
67	Long-Chain n-3 Fatty Acids Attenuate Oncogenic KRas-Driven Proliferation by Altering Plasma Membrane Nanoscale Proteolipid Composition. <i>Cancer Research</i> , 2018, 78, 3899-3912.	0.4	29
68	The importance of Ras in drug resistance in cancer. <i>British Journal of Pharmacology</i> , 2022, 179, 2844-2867.	2.7	26
69	Control of growth factor receptor dynamics by reversible ubiquitination. <i>Biochemical Society Transactions</i> , 2006, 34, 754-756.	1.6	25
70	Modulating Protein-Protein Interactions of the Mitotic Polo-like Kinases to Target Mutant KRAS. <i>Cell Chemical Biology</i> , 2017, 24, 1017-1028.e7.	2.5	25
71	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.	1.0	24
72	Localization of a Class II Phosphatidylinositol 3-Kinase, PI3KC2 $\beta$ , to Clathrin-Coated Vesicles. <i>Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications</i> , 1999, 1, 162-166.	1.7	23

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73	Ras palmitoylation is necessary for N-Ras activation and signal propagation in growth factor signalling. <i>Biochemical Journal</i> , 2013, 454, 323-332.	1.7	23
74	Isoform-specific Ras signaling is growth factor dependent. <i>Molecular Biology of the Cell</i> , 2019, 30, 1108-1117.	0.9	23
75	Compartmentalized Ras signaling differentially contributes to phenotypic outputs. <i>Cellular Signalling</i> , 2013, 25, 1748-1753.	1.7	22
76	The endoplasmic reticulum remains functionally connected by vesicular transport after its fragmentation in cells expressing Z $\alpha$ 1 antitrypsin. <i>FASEB Journal</i> , 2016, 30, 4083-4097.	0.2	22
77	The Vpu-regulated endocytosis of HIV-1 Gag is clathrin-independent. <i>Virology</i> , 2007, 369, 299-308.	1.1	21
78	DRP-1 functions independently of mitochondrial structural perturbations to facilitate BH3 mimetic-mediated apoptosis. <i>Cell Death Discovery</i> , 2019, 5, 117.	2.0	19
79	Fibroblast Growth Factor 2 lethally sensitizes cancer cells to stress-targeted therapeutic inhibitors. <i>Molecular Oncology</i> , 2019, 13, 290-306.	2.1	18
80	Acrylate-facilitated Cellular Uptake of Gold Nanoparticles. <i>Small</i> , 2011, 7, 1982-1986.	5.2	17
81	Detection of thiol modification following generation of reactive nitrogen species: analysis of synaptic vesicle proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1475, 281-286.	1.1	16
82	Global Snapshot of the Influence of Endocytosis upon EGF Receptor Signaling Output. <i>Journal of Proteome Research</i> , 2012, 11, 5157-5166.	1.8	16
83	The neuroendocrine phenotype of gastric myofibroblasts and its loss with cancer progression. <i>Carcinogenesis</i> , 2014, 35, 1798-1806.	1.3	16
84	Glutamate uptake occurs at an early stage of synaptic vesicle recycling. <i>Current Biology</i> , 1997, 7, 353-356.	1.8	15
85	LAP-like non-canonical autophagy and evolution of endocytic vacuoles in pancreatic acinar cells. <i>Autophagy</i> , 2020, 16, 1314-1331.	4.3	15
86	Decoding RAS isoform and codon-specific signalling. <i>Biochemical Society Transactions</i> , 2014, 42, 742-746.	1.6	14
87	Serial block-face scanning electron microscopy applied to study the trafficking of 8D3-coated gold nanoparticles at the blood-brain barrier. <i>Histochemistry and Cell Biology</i> , 2017, 148, 3-12.	0.8	13
88	Structural insights into loss of function of a pore forming toxin and its role in pneumococcal adaptation to an intracellular lifestyle. <i>PLoS Pathogens</i> , 2020, 16, e1009016.	2.1	13
89	Studying Kinetochore-Fiber Ultrastructure Using Correlative Light-Electron Microscopy. <i>Methods in Cell Biology</i> , 2013, 115, 327-342.	0.5	12
90	Exploiting Covalent, H-Bonding, and $\pi$ - $\pi$ Interactions to Design Antibacterial PDMS Interfaces That Load and Release Salicylic Acid. <i>ACS Applied Bio Materials</i> , 2019, 2, 4801-4811.	2.3	12

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91	ER stress-linked autophagy stabilizes apoptosis effector PERP and triggers its co-localization with SERCA2b at ERâ€“plasma membrane junctions. <i>Cell Death Discovery</i> , 2019, 5, 132.	2.0	12
92	Plasticity of Mammary Cell Boundaries Governed by EGF and Actin Remodeling. <i>Cell Reports</i> , 2014, 8, 1722-1730.	2.9	11
93	Comparative proteomic analysis of compartmentalised Ras signalling. <i>Scientific Reports</i> , 2015, 5, 17307.	1.6	10
94	A reliable method for attaching biological molecules to layer-by-layer self-assemblies. <i>Chemical Communications</i> , 2009, , 2487.	2.2	9
95	<i>SuperCLEM</i> : an accessible correlative light and electron microscopy approach for investigation of neurons and glia in vitro. <i>Biology Open</i> , 2019, 8, .	0.6	9
96	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.	0.9	8
97	Exploring High Aspect Ratio Gold Nanotubes as Cytosolic Agents: Structural Engineering and Uptake into Mesothelioma Cells. <i>Small</i> , 2020, 16, e2003793.	5.2	7
98	Novel roles of RTN4 and CLIMP-63 in regulating mitochondrial structure, bioenergetics and apoptosis. <i>Cell Death and Disease</i> , 2022, 13, 436.	2.7	7
99	Three-dimensional electron microscopic reconstruction of intracellular organellar arrangements in vascular smooth muscle â€“ further evidence of nanospaces and contacts. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 995-998.	1.6	5
100	Concentric lamellae â€“ novel microanatomical structures in the articular calcified cartilage of mice. <i>Scientific Reports</i> , 2019, 9, 11188.	1.6	5
101	Which Ras rides the raft? - Reply. <i>Nature Cell Biology</i> , 2001, 3, E172-E172.	4.6	4
102	One-step preparation of antimicrobial silicone materials based on PDMS and salicylic acid: insights from spatially and temporally resolved techniques. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 51.	2.9	4
103	Electron Microscopy Methods for Studying Plasma Membranes. <i>Methods in Molecular Biology</i> , 2015, 1232, 137-151.	0.4	4
104	Effect of Local Topography on Cell Division of <i>Staphylococcus</i> spp.. <i>Nanomaterials</i> , 2022, 12, 683.	1.9	4
105	Ras Variant Biology and Contributions to Human Disease. <i>Methods in Molecular Biology</i> , 2021, 2262, 3-18.	0.4	3
106	Kinobead Profiling Reveals Reprogramming of BCR Signaling in Response to Therapy within Primary CLL Cells. <i>Clinical Cancer Research</i> , 2021, 27, 5647-5659.	3.2	3
107	Carcinogen-induced DNA structural distortion differences in the RAS gene isoforms; the importance of local sequence. <i>BMC Chemistry</i> , 2021, 15, 51.	1.6	3
108	Quantitative Proteomic Analysis of Compartmentalized Signaling Networks. <i>Methods in Enzymology</i> , 2014, 535, 309-325.	0.4	2

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109	Absolute Quantitation of GTPase Protein Abundance. <i>Methods in Molecular Biology</i> , 2021, 2262, 65-90.	0.4	2
110	Danger zone. <i>ELife</i> , 2021, 10, .	2.8	2
111	Compartmentalized signalling: cAMP, calcium and Ras. <i>FEBS Journal</i> , 2009, 276, 1789-1789.	2.2	0
112	Putting signalling into context. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 125.	2.3	0
113	Title is missing!. , 2020, 16, e1009016.		0
114	Title is missing!. , 2020, 16, e1009016.		0
115	Title is missing!. , 2020, 16, e1009016.		0
116	Title is missing!. , 2020, 16, e1009016.		0
117	Title is missing!. , 2020, 16, e1009016.		0