# Steven Pelech

List of Publications by Year
in descending order

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| 72 | 4,015 | 117625 | 128289 |
|---|---|---|---|
| papers | citations | 34 h-index | 60 g-index |

| 75 | 75 | 75 | 3964 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitogen-activated protein kinases: versatile transducers for cell signaling. Trends in Biochemical Sciences, 1992, 17, 233-238. | 7.5 | 437 |
| 2 | MAP kinases: charting the regulatory pathways. Science, 1992, 257, 1355-1356. | 12.6 | 381 |
| 3 | Signal transduction via phosphatidylcholine cycles. Trends in Biochemical Sciences, 1989, 14, 28-30. | 7.5 | 300 |
| 4 | Î±-Synuclein activates stress signaling protein kinases in THP-1 cells and microglia. Neurobiology of Aging, 2008, 29, 739-752. | 3.1 | 202 |
| 5 | Enzyme translocation in the regulation of phosphatidylcholine biosynthesis. Trends in Biochemical Sciences, 1984, 9, 17-20. | 7.5 | 159 |
| 6 | Stress-induced Inhibition of ERK1 and ERK2 by Direct Interaction with p38 MAP Kinase. Journal of Biological Chemistry, 2001, 276, 6905-6908. | 3.4 | 153 |
| 7 | Protein kinase cascades in meiotic and mitotic cell cycle control. Biochemistry and Cell Biology, 1990, 68, 1297-1330. | 2.0 | 128 |
| 8 | Alphaâ€synuclein and its diseaseâ€causing mutants induce ICAMâ€1 and ILâ€6 in human astrocytes and astrocytoma cells. FASEB Journal, 2006, 20, 2000-2008. | 0.5 | 126 |
| 9 | Positive Regulation of Raf1-MEK1/2-ERK1/2 Signaling by Protein Serine/Threonine Phosphatase 2A Holoenzymes*. Journal of Biological Chemistry, 2005, 280, 42644-42654. | 3.4 | 119 |
| 10 | The protein phosphatases involved in cellular regulation. 1. Modulation of protein phosphatases-1 and 2 A by histone H 1, protamine, polylysine and heparin. FEBS Journal, 1985, 148, 245-251. | 0.2 | 91 |
| 11 | Angiotensin II Stimulates p21-Activated Kinase in Vascular Smooth Muscle Cells. Circulation Research, 1998, 82, 1272-1278. | 4.5 | 86 |
| 12 | Dysregulation of phosphatidylinositol 3-kinase and downstream effectors in human breast cancer. International Journal of Cancer, 2002, 98, 148-154. | 5.1 | 77 |
| 13 | The protein phosphatases involved in cellular regulation. Evidence that dephosphorylation of glycogen phosphorylase and glycogen synthase in the glycogen and microsomal fractions of rat liver are catalysed by the same enzyme: protein phosphatase-1. FEBS Journal, 1986, 156, 101-110. | 0.2 | 76 |
| 14 | B23/Nucleophosmin Serine 4 Phosphorylation Mediates Mitotic Functions of Polo-like Kinase 1. Journal of Biological Chemistry, 2004, 279, 35726-35734. | 3.4 | 71 |
| 15 | Amyotrophic lateral sclerosis: the involvement of intracellular Ca2+ and protein kinase C. Trends in Pharmacological Sciences, 1996, 17, 114-120. | 8.7 | 69 |
| 16 | The protein phosphatases involved in cellular regulation. Influence of polyamines on the activities of protein phosphatase-1 and protein phosphatase-2A. FEBS Journal, 1985, 149, 305-314. | 0.2 | 68 |
| 17 | Tumor Cell Pseudopodial Protrusions. Journal of Biological Chemistry, 2005, 280, 30564-30573. | 3.4 | 67 |
| 18 | Phosphorylation and activation of smooth muscle myosin light chain kinase by MAP kinase and cyclin-dependent kinase-1. Biochemistry and Cell Biology, 1996, 74, 549-557. | 2.0 | 64 |

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|---|---|---|---|
| 19 | Networking with proline-directed protein kinases implicated in Tau phosphorylation. Neurobiology of Aging, 1995, 16, 247-256. | 3.1 | 62 |
| 20 | Role of Extracellular Signalâ€Regulated Protein Kinases 1 and 2 in Oligodendroglial Process Extension. Journal of Neurochemistry, 1997, 68, 945-953. | 3.9 | 62 |
| 21 | Prediction of 492 human protein kinase substrate specificities. Proteome Science, 2011, 9, S6. | 1.7 | 62 |
| 22 | Networking with protein kinases. Current Biology, 1993, 3, 513-515. | 3.9 | 61 |
| 23 | Protein kinase and protein phosphatase expression in the central nervous system of G93A mSOD overâ€expressing mice. Journal of Neurochemistry, 2003, 85, 422-431. | 3.9 | 60 |
| 24 | Protein phosphatase 1 complexes modulate sperm motility and present novel targets for male infertility. Molecular Human Reproduction, 2011, 17, 466-477. | 2.8 | 60 |
| 25 | Profiling of Protein Kinases in the Neoplastic Transformation of Human Ovarian Surface Epithelium. Gynecologic Oncology, 2001, 82, 305-311. | 1.4 | 59 |
| 26 | Protein kinase CK2 is involved in G2 arrest and apoptosis following spindle damage in epithelial cells. Oncogene, 2001, 20, 6994-7005. | 5.9 | 59 |
| 27 | The protein phosphatases involved in cellular regulation. Glycolysis, gluconeogenesis and aromatic amino acid breakdown in rat liver. FEBS Journal, 1984, 145, 39-49. | 0.2 | 52 |
| 28 | Nocodazole-induced p53-dependent c-Jun N-terminal Kinase Activation Reduces Apoptosis in Human Colon Carcinoma HCT116 Cells. Journal of Biological Chemistry, 2002, 277, 43648-43658. | 3.4 | 52 |
| 29 | Glycogen synthase kinase-3 regulates formation of long lamellipodia in human keratinocytes. Journal of Cell Science, 2003, 116, 3749-3760. | 2.0 | 52 |
| 30 | Phosphoproteomic Analysis of Salmonella -Infected Cells Identifies Key Kinase Regulators and SopB-Dependent Host Phosphorylation Events. Science Signaling, 2011, 4, rs9. | 3.6 | 52 |
| 31 | Progressive changes in Met-dependent signaling in a human ovarian surface epithelial model of malignant transformation. Experimental Cell Research, 2004, 299, 248-256. | 2.6 | 44 |
| 32 | Phosphorylation of STAT3 Serine-727 by Cyclin-Dependent Kinase 1 Is Critical for Nocodazole-Induced Mitotic Arrest. Biochemistry, 2006, 45, 5857-5867. | 2.5 | 44 |
| 33 | Cyclic GMP-dependent and -independent regulation of MAP kinases by sodium nitroprusside in isolated cardiomyocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1496, 277-284. | 4.1 | 37 |
| 34 | Tracking Cell Signaling Protein Expression and Phosphorylation by Innovative Proteomic Solutions. Current Pharmaceutical Biotechnology, 2004, 5, 69-77. | 1.6 | 37 |
| 35 | Profiling signaling proteins inÂhumanÂspermatozoa: biomarker identification for sperm quality evaluation. Fertility and Sterility, 2015, 104, 845-856.e8. | 1.0 | 36 |
| 36 | Pertussis toxin induces angiogenesis in brain microvascular endothelial cells. Journal of Neuroscience Research, 2008, 86, 2624-2640. | 2.9 | 34 |

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| 37 | Using protein microarrays to study phosphorylation-mediated signal transduction. Seminars in Cell and Developmental Biology, 2012, 23, 872-882. | 5.0 | 33 |
| 38 | Bacterial GroEL-like heat shock protein 60 protects epithelial cells from stress-induced death through activation of ERK and inhibition of caspase 3. Experimental Cell Research, 2004, 292, 231-240. | 2.6 | 31 |
| 39 | AÎ² treatment and P301L tau expression in an Alzheimer's disease tissue culture model act synergistically to promote aberrant cell cycle reâ€entry. European Journal of Neuroscience, 2007, 26, 60-72. | 2.6 | 31 |
| 40 | Antibody Microarray Analyses of Signal Transduction Protein Expression and Phosphorylation during Porcine Oocyte Maturation. Journal of Proteome Research, 2008, 7, 2860-2871. | 3.7 | 31 |
| 41 | Regulatory roles of conserved phosphorylation sites in the activation T-loop of the MAP kinase ERK1. Molecular Biology of the Cell, 2016, 27, 1040-1050. | 2.1 | 31 |
| 42 | Kinetworks<sup>TM</sup> Protein Kinase Multiblot Analysis. , 2003, 218, 99-112. | | 28 |
| 43 | Postâ€ovulatory aging of oocytes disrupts kinase signaling pathways and lysosome biogenesis. Molecular Reproduction and Development, 2014, 81, 928-945. | 2.0 | 25 |
| 44 | Long-Term Effect of Heat Shock Protein 60 from Actinobacillus actinomycetemcomitans on Epithelial Cell Viability and Mitogen-Activated Protein Kinases. Infection and Immunity, 2004, 72, 38-45. | 2.2 | 21 |
| 45 | Aberrant protein kinases and phosphoproteins in amyotrophic lateral sclerosis. Trends in Pharmacological Sciences, 2003, 24, 535-541. | 8.7 | 20 |
| 46 | Protein signaling pathways in differentiation of neural stem cells. Proteomics, 2008, 8, 4547-4559. | 2.2 | 20 |
| 47 | Dimerization in protein kinase signaling. , 2006, 5, 12. | | 18 |
| 48 | Experiments from unfinished Registered Reports in the Reproducibility Project: Cancer Biology. ELife, 2021, 10, . | 6.0 | 16 |
| 49 | Cytokines and Signal Transduction Pathways Mediated by Anthralin in Alopecia Areata-Affected Dundee ExperimentalBalding Rats. Journal of Investigative Dermatology Symposium Proceedings, 2003, 8, 87-90. | 0.8 | 13 |
| 50 | Evolutionary Ancestry of Eukaryotic Protein Kinases and Choline Kinases. Journal of Biological Chemistry, 2016, 291, 5199-5205. | 3.4 | 11 |
| 51 | Proteomic Analyses of Lung Lysates from Short-Term Exposure of Fischer 344 Rats to Cigarette Smoke. Journal of Proteome Research, 2011, 10, 3720-3731. | 3.7 | 10 |
| 52 | Differential dephosphorylation of CTP:phosphocholine cytidylyltransferase upon translocation to nuclear membranes and lipid droplets. Molecular Biology of the Cell, 2020, 31, 1047-1059. | 2.1 | 10 |
| 53 | Plasticity of the Kinomes in Monkey and Rat Tissues. Science Signaling, 2002, 2002, pe50-pe50. | 3.6 | 8 |
| 54 | Monitoring Protein Kinase Expression and Phosphorylation in Cell Lysates with Antibody Microarrays. Methods in Molecular Biology, 2016, 1360, 107-122. | 0.9 | 8 |

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|---|---|---|---|
| 55 | Biomarker identification for diagnosis of Alzheimer's disease. Expert Opinion on Medical Diagnostics, 2008, 2, 577-591. | 1.6 | 7 |
| 56 | Investigation of spectroscopic and proteomic alterations underlying prostate carcinogenesis. Journal of Proteomics, 2020, 226, 103888. | 2.4 | 7 |
| 57 | Cholesteryl Glucoside Stimulates Activation of Protein Kinase B/Akt in the Motor Neuron-Derived NSC34 Cell Line. Neurobiology of Lipids, 2008, 7, 620081. | 1.0 | 7 |
| 58 | Maternal COVID-19 Vaccination and Its Potential Impact on Fetal and Neonatal Development. Vaccines, 2021, 9, 1351. | 4.4 | 7 |
| 59 | Registered report: RAF inhibitors prime wild-type RAF to activate the MAPK pathway and enhance growth. ELife, 2016, 5, . | 6.0 | 6 |
| 60 | Histological and proteomic analysis of reversible H-Ras V12G expression in transgenic mouse skin. Carcinogenesis, 2007, 28, 2244-2252. | 2.8 | 5 |
| 61 | Determination of the Substrate Specificity of Protein Kinases with Peptide Micro- and Macroarrays. Methods in Molecular Biology, 2016, 1360, 183-202. | 0.9 | 3 |
| 62 | Prediction of human protein kinase substrate specificities. , 2010, , . | | 2 |
| 63 | CELLULAR SECURITY. The Sciences, 1989, 29, 39-46. | 0.1 | 1 |
| 64 | Antibody-Based Proteomics Analysis of Tumor Cell Signaling Pathways. , 2008, , 117-134. | | 1 |
| 65 | Characterization of Developmentally Regulated cAMP/Ca2+-Independent Protein Kinases from Dictyostelium discoideum. (protein phosphorylation/protein kinases/Dictyostelium discoideum). Development Growth and Differentiation, 1989, 31, 351-361. | 1.5 | 0 |
| 66 | WHEN CELLS DIVIDE. The Sciences, 1990, 30, 22-28. | 0.1 | 0 |
| 67 | Degenerative and protective signaling mechanisms in the neurofibrillary pathology of Alzheimer's disease. Neurobiology of Aging, 1995, 16, 458. | 3.1 | 0 |
| 68 | Evolutionary Conservation of Human Phosphorylation Sites. , 2011, , . | | 0 |
| 69 | Peptide Arrays. , 2012, , 81-112. | | 0 |
| 70 | Meta-analysis of human cancers with onconet- An open-access, on-line knowledge base for human cancer gene mutation and expression. Journal of Proteomics and Bioinformatics, 2014, S1, . | 0.4 | 0 |
| 71 | Abstract 3460: Regulatory roles of conserved phosphorylation sites in the activation loop of the MAP kinase. , 2014, , . | | 0 |
| 72 | Tracking Protein Expression, Postâ€translational Modifications and Interactions with High Content Antibody Microarrays. FASEB Journal, 2018, 32, 802.6. | 0.5 | 0 |