

Roumen Pankov

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

9,373
citations

361045

20
h-index

174990

52
g-index

62
all docs

62
docs citations

62
times ranked

12278
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Taking Cell-Matrix Adhesions to the Third Dimension. <i>Science</i> , 2001, 294, 1708-1712. | 6.0 | 2,735 |
| 2 | Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 793-805. | 16.1 | 2,046 |
| 3 | Fibronectin at a glance. <i>Journal of Cell Science</i> , 2002, 115, 3861-3863. | 1.2 | 1,662 |
| 4 | Cell interactions with three-dimensional matrices. <i>Current Opinion in Cell Biology</i> , 2002, 14, 633-640. | 2.6 | 806 |
| 5 | Integrin Dynamics and Matrix Assembly. <i>Journal of Cell Biology</i> , 2000, 148, 1075-1090. | 2.3 | 432 |
| 6 | A Rac switch regulates random versus directionally persistent cell migration. <i>Journal of Cell Biology</i> , 2005, 170, 793-802. | 2.3 | 400 |
| 7 | Shc and Fak Differentially Regulate Cell Motility and Directionality Modulated by Pten. <i>Journal of Cell Biology</i> , 1999, 146, 389-404. | 2.3 | 390 |
| 8 | A specific $\beta 1$ -integrin conformation promotes directional integrin translocation and fibronectin matrix formation. <i>Journal of Cell Science</i> , 2005, 118, 291-300. | 1.2 | 115 |
| 9 | Specific $\beta 1$ Integrin Site Selectively Regulates Akt/Protein Kinase B Signaling via Local Activation of Protein Phosphatase 2A. <i>Journal of Biological Chemistry</i> , 2003, 278, 18671-18681. | 1.6 | 81 |
| 10 | Oncogene activation of human keratin 18 transcription via the Ras signal transduction pathway.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 873-877. | 3.3 | 78 |
| 11 | Electroporation-mediated uptake of proteins into mammalian cells. <i>Biochemistry and Cell Biology</i> , 1990, 68, 729-734. | 0.9 | 70 |
| 12 | Integrin clustering induces kinectin accumulation. <i>Journal of Cell Science</i> , 2002, 115, 2031-2040. | 1.2 | 53 |
| 13 | Regulation of adherens junction protein expression in growth-activated 3T3 cells and in regenerating liver. <i>Experimental Cell Research</i> , 1992, 202, 477-486. | 1.2 | 46 |
| 14 | Integrin clustering induces kinectin accumulation. <i>Journal of Cell Science</i> , 2002, 115, 2031-40. | 1.2 | 45 |
| 15 | An antigen located in the kinetochore region in metaphase and on polar microtubule ends in the midbody region in anaphase, characterised using a monoclonal antibody. <i>Chromosoma</i> , 1990, 99, 95-101. | 1.0 | 40 |
| 16 | Three-dimensional matrix induces sustained activation of ERK1/2 via Src/Ras/Raf signaling pathway. <i>Cell Biology International</i> , 2008, 32, 229-234. | 1.4 | 35 |
| 17 | $\beta 1$ Integrin Cytoplasmic Domain Residues Selectively Modulate Fibronectin Matrix Assembly and Cell Spreading through Talin and Akt-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 8148-8159. | 1.6 | 33 |
| 18 | Resveratrol alters the lipid composition, metabolism and peroxide level in senescent rat hepatocytes. <i>Chemico-Biological Interactions</i> , 2014, 207, 74-80. | 1.7 | 29 |

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|----|--|-----|-----------|
| 19 | Cholesterol distribution in plasma membranes of $\alpha 21$ integrin-expressing and $\alpha 21$ integrin-deficient fibroblasts. Archives of Biochemistry and Biophysics, 2005, 442, 160-168. | 1.4 | 28 |
| 20 | The plasma membrane lipid composition affects fusion between cells and model membranes. Chemico-Biological Interactions, 2006, 164, 167-173. | 1.7 | 25 |
| 21 | Fluorescent Labeling Techniques for Investigation of Fibronectin Fibrillogenesis (Labeling Fibronectin) Tj ETQq1 1 0.784314 rgBT /Ove | 0.4 | 20 |
| 22 | Ha- ras-TRANSFORMATION ALTERS THE METABOLISM OF PHOSPHATIDYLETHANOLAMINE AND PHOSPHATIDYLCHOLINE IN NIH 3T3 FIBROBLASTS. Cell Biology International, 1999, 23, 603-610. | 1.4 | 19 |
| 23 | Effect of halothane on lung carcinoma cells A 549. Chemico-Biological Interactions, 2003, 146, 191-200. | 1.7 | 13 |
| 24 | Epirubicin loading in poly(butyl cyanoacrylate) nanoparticles manifests via altered intracellular localization and cellular response in cervical carcinoma (HeLa) cells. Drug Delivery, 2016, 23, 2235-2244. | 2.5 | 13 |
| 25 | Do We Need More Human Embryonic Stem Cell Lines?. Biotechnology and Biotechnological Equipment, 2010, 24, 1921-1927. | 0.5 | 12 |
| 26 | Alterations in the content and physiological role of sphingomyelin in plasma membranes of cells cultured in three-dimensional matrix. Molecular and Cellular Biochemistry, 2010, 340, 215-222. | 1.4 | 11 |
| 27 | Testosterone replacement therapy improves erythrocyte membrane lipid composition in hypogonadal men. Aging Male, 2012, 15, 173-179. | 0.9 | 11 |
| 28 | Live-cell biosensor for assessment of adhesion qualities of biomaterials. Materials Science and Engineering C, 2017, 78, 230-238. | 3.8 | 10 |
| 29 | Characterization of stitch adhesions: Fibronectin-containing cell-cell contacts formed by fibroblasts. Experimental Cell Research, 2019, 384, 111616. | 1.2 | 10 |
| 30 | Phospholipid dependence of membrane-bound phospholipase A2 in ras-transformed NIH 3T3 fibroblasts. Biochimie, 1998, 80, 1055-1062. | 1.3 | 9 |
| 31 | Non- α Radioactive Quantification of Fibronectin Matrix Assembly. Current Protocols in Cell Biology, 2004, 25, Unit 10.13. | 2.3 | 8 |
| 32 | Alterations in microsomal and plasma membranes during liver regeneration. Biochimie, 1992, 74, 981-987. | 1.3 | 7 |
| 33 | Stimulated Nonspecific Transport of Phospholipids Results in Elevated External Appearance of Phosphatidylserine in ras-Transformed Fibroblasts. Archives of Biochemistry and Biophysics, 2000, 381, 295-301. | 1.4 | 6 |
| 34 | Cell culturing in a three-dimensional matrix affects the localization and properties of plasma membrane cholesterol. Cell Biology International, 2009, 33, 1079-1086. | 1.4 | 6 |
| 35 | Best1 Shot Through the Eye-Structure, Functions and Clinical Implications of Bestrophin-1 Protein. Biotechnology and Biotechnological Equipment, 2013, 27, 3457-3464. | 0.5 | 6 |
| 36 | Surface Properties and Behavior of Lipid Extracts from Plasma Membranes of Cells Cultured as Monolayer and in Tissue-Like Conditions. Cell Biochemistry and Biophysics, 2009, 54, 47-55. | 0.9 | 5 |

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|----|--|-----|-----------|
| 37 | The Evolution of Three-Dimensional Cell Cultures Towards Unimpeded Regenerative Medicine and Tissue Engineering. , 0, , . | | 5 |
| 38 | Current state of the opportunities for derivation of germ-like cells from pluripotent stem cells: are you a man, or a mouse?. Biotechnology and Biotechnological Equipment, 2014, 28, 184-191. | 0.5 | 5 |
| 39 | Sphingolipid Catabolism and Glycerophospholipid Levels Are Altered in Erythrocytes and Plasma from Multiple Sclerosis Patients. International Journal of Molecular Sciences, 2022, 23, 7592. | 1.8 | 5 |
| 40 | Determination of Akt/ PKB Signaling. Current Protocols in Cell Biology, 2004, 22, Unit 14.6. | 2.3 | 4 |
| 41 | Inhibition of Rho GTPases by RNA Interference. Methods in Enzymology, 2006, 406, 345-361. | 0.4 | 4 |
| 42 | Halothane affects focal adhesion proteins in the A 549 cells. Molecular and Cellular Biochemistry, 2007, 295, 59-64. | 1.4 | 4 |
| 43 | Intake of Xylooligosaccharides Alters the Structural Organization of Liver Plasma Membrane Bilayer. Food Biophysics, 2014, 9, 138-144. | 1.4 | 4 |
| 44 | Dimethylsphingosine and miltefosine induce apoptosis in lung adenocarcinoma A549 cells in a synergistic manner. Chemico-Biological Interactions, 2019, 310, 108731. | 1.7 | 4 |
| 45 | Structural organization of plasma membrane lipids isolated from cells cultured as a monolayer and in tissue-like conditions. Journal of Colloid and Interface Science, 2011, 359, 202-209. | 5.0 | 3 |
| 46 | Anti-cancer effect of <i>Petasites hybridus</i> L. (Butterbur) root extract on breast cancer cell lines. Biotechnology and Biotechnological Equipment, 2021, 35, 853-861. | 0.5 | 3 |
| 47 | Hyperglycemia attenuates fibroblast contractility via suppression of T ₁ R2R11 receptor modulated $\hat{\pm}$ -smooth muscle actin expression. Biotechnology and Biotechnological Equipment, 2022, 36, 35-44. | 0.5 | 3 |
| 48 | Arachidonoyl-CoA: Lysophosphatidylcholine acyltransferase activity in ras-transformed NIH 3T3 fibroblasts depends on the membrane composition. IUBMB Life, 1999, 47, 555-561. | 1.5 | 2 |
| 49 | Fructooligosaccharide Intake Alters the Phospholipid and Fatty Acid Composition of Liver Plasma Membranes. Biotechnology and Biotechnological Equipment, 2012, 26, 2904-2909. | 0.5 | 2 |
| 50 | Individual capacity for repair of DNA damage and potential uses of stem cell lines for clinical applications: a matter of (genomic) integrity. Biotechnology and Biotechnological Equipment, 2018, 32, 1352-1358. | 0.5 | 2 |
| 51 | Photobiomodulation with 590-nm Wavelength Delays the Telomere Shortening and Replicative Senescence of Human Dermal Fibroblasts <i>In Vitro</i> . Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 656-660. | 0.7 | 2 |
| 52 | Quercetin affects membrane lipids and apoptosis in three-dimensional fibroblast cultures. Biotechnology and Biotechnological Equipment, 2021, 35, 943-952. | 0.5 | 2 |
| 53 | Alterations of the composition and metabolism of pulmonary surfactant phospholipids induced by experimental peritonitis in rats. Chemico-Biological Interactions, 2007, 169, 73-79. | 1.7 | 1 |
| 54 | Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. , 0, . | | 1 |

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|----|--|-----|-----------|
| 55 | Alterations in rat alveolar surfactant system induced by treatment with carbicron (O-[(2-butenic) Tj ETQq1 1 0.784314 rgBT /Overlook Comparative Pharmacology, 1992, 103, 553-555. | 0.2 | 0 |
| 56 | Influence of Carbicron (O-[(2-butenic acid)-N,N-dimethylamide-3-YL] O,O-dimethylphosphate) on some biochemical and biophysical parameters of rat liver membranes. International Journal of Biochemistry & Cell Biology, 1993, 25, 253-257. | 0.8 | 0 |
| 57 | Cell Adhesions and Signaling: A Tool for Biocompatibility Assessment. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 1-17. | 0.5 | 0 |