

Abhijit De

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

5,463
citations

126708

33
h-index

82410

72
g-index

102
all docs

102
docs citations

102
times ranked

9159
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | IHC Profiler: An Open Source Plugin for the Quantitative Evaluation and Automated Scoring of Immunohistochemistry Images of Human Tissue Samples. PLoS ONE, 2014, 9, e96801. | 1.1 | 937 |
| 2 | Imaging Tri-Fusion Multimodality Reporter Gene Expression in Living Subjects. Cancer Research, 2004, 64, 1323-1330. | 0.4 | 339 |
| 3 | In Vivo Analysis of Biodegradable Liposome Gold Nanoparticles as Efficient Agents for Photothermal Therapy of Cancer. Nano Letters, 2015, 15, 842-848. | 4.5 | 338 |
| 4 | An Inhibitor of Nonhomologous End-Joining Abrogates Double-Strand Break Repair and Impedes Cancer Progression. Cell, 2012, 151, 1474-1487. | 13.5 | 322 |
| 5 | Endothelial Cells Derived From Human iPSCs Increase Capillary Density and Improve Perfusion in a Mouse Model of Peripheral Arterial Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, e72-9. | 1.1 | 230 |
| 6 | Real-Time Intravital Imaging of RGD ⁺ Quantum Dot Binding to Luminal Endothelium in Mouse Tumor Neovasculature. Nano Letters, 2008, 8, 2599-2606. | 4.5 | 207 |
| 7 | Trafficking Mesenchymal Stem Cell Engraftment and Differentiation in Tumor-Bearing Mice by Bioluminescence Imaging. Stem Cells, 2009, 27, 1548-1558. | 1.4 | 206 |
| 8 | Bioluminescence resonance energy transfer (BRET) imaging of protein-protein interactions within deep tissues of living subjects. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12060-12065. | 3.3 | 163 |
| 9 | Biodistribution of Neural Stem Cells After Intravascular Therapy for Hypoxic Ischemia. Stroke, 2010, 41, 2064-2070. | 1.0 | 154 |
| 10 | Multifunctional gold coated thermo-sensitive liposomes for multimodal imaging and photo-thermal therapy of breast cancer cells. Nanoscale, 2014, 6, 916-923. | 2.8 | 133 |
| 11 | Embryonic Stem Cell-Derived Endothelial Cells Engraft Into the Ischemic Hindlimb and Restore Perfusion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 984-991. | 1.1 | 126 |
| 12 | Noninvasive imaging of lentiviral-mediated reporter gene expression in living mice. Molecular Therapy, 2003, 7, 681-691. | 3.7 | 111 |
| 13 | Treatment of metastatic melanoma with an orally available inhibitor of the Ras-Raf-MAPK cascade. Cancer Research, 2003, 63, 5669-73. | 0.4 | 109 |
| 14 | An Improved Bioluminescence Resonance Energy Transfer Strategy for Imaging Intracellular Events in Single Cells and Living Subjects. Cancer Research, 2007, 67, 7175-7183. | 0.4 | 108 |
| 15 | Small-Animal PET Imaging of Human Epidermal Growth Factor Receptor Type 2 Expression with Site-Specific 18F-Labeled Protein Scaffold Molecules. Journal of Nuclear Medicine, 2008, 49, 804-813. | 2.8 | 102 |
| 16 | Noninvasive imaging of protein-protein interactions from live cells and living subjects using bioluminescence resonance energy transfer. FASEB Journal, 2005, 19, 2017-2019. | 0.2 | 98 |
| 17 | BRET3: a red-shifted bioluminescence resonance energy transfer (BRET)-based integrated platform for imaging protein-protein interactions from single live cells and living animals. FASEB Journal, 2009, 23, 2702-2709. | 0.2 | 98 |
| 18 | Structural and Optical Investigations of Radiation Damage in Transparent PET Polymer Films. International Journal of Spectroscopy, 2011, 2011, 1-7. | 1.4 | 86 |

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|----|---|-----|-----------|
| 19 | Inhibition of Epithelial to Mesenchymal Transition by E-cadherin Up-regulation via Repression of Slug Transcription and Inhibition of E-cadherin Degradation. <i>Journal of Biological Chemistry</i> , 2014, 289, 25431-25444. | 1.6 | 86 |
| 20 | Reporter gene imaging of protein-protein interactions in living subjects. <i>Current Opinion in Biotechnology</i> , 2007, 18, 31-37. | 3.3 | 81 |
| 21 | A Novel Method for Direct Site-Specific Radiolabeling of Peptides Using [¹⁸ F]FDG. <i>Bioconjugate Chemistry</i> , 2009, 20, 432-436. | 1.8 | 81 |
| 22 | Long chain lipid based tamoxifen NLC. Part II: Pharmacokinetic, biodistribution and in vitro anticancer efficacy studies. <i>International Journal of Pharmaceutics</i> , 2013, 454, 584-592. | 2.6 | 66 |
| 23 | Monitoring Caspase-3 Activation with a Multimodality Imaging Sensor in Living Subjects. <i>Clinical Cancer Research</i> , 2008, 14, 5801-5809. | 3.2 | 65 |
| 24 | ⁶⁴ Cu-Labeled Affibody Molecules for Imaging of HER2 Expressing Tumors. <i>Molecular Imaging and Biology</i> , 2010, 12, 316-324. | 1.3 | 54 |
| 25 | Quantitative Immunohistochemical Analysis Reveals Association between Sodium Iodide Symporter and Estrogen Receptor Expression in Breast Cancer. <i>PLoS ONE</i> , 2013, 8, e54055. | 1.1 | 54 |
| 26 | Bioluminescence based in vivo screening technologies. <i>Current Opinion in Pharmacology</i> , 2012, 12, 592-600. | 1.7 | 53 |
| 27 | Direct Site-Specific Radiolabeling of an Affibody Protein with 4-[¹⁸ F]Fluorobenzaldehyde via Oxime Chemistry. <i>Molecular Imaging and Biology</i> , 2008, 10, 177-181. | 1.3 | 49 |
| 28 | Dynamic Visualization of RGD-Quantum Dot Binding to Tumor Neovasculature and Extravasation in Multiple Living Mouse Models Using Intravital Microscopy. <i>Small</i> , 2010, 6, 2222-2229. | 5.2 | 49 |
| 29 | Bioluminescent Imaging of Melanoma in Live Mice. <i>Journal of Investigative Dermatology</i> , 2005, 125, 159-165. | 0.3 | 48 |
| 30 | Evolution of BRET Biosensors from Live Cell to Tissue-Scale In vivo Imaging. <i>Frontiers in Endocrinology</i> , 2013, 4, 131. | 1.5 | 48 |
| 31 | Bisdeoxycoelenterazine Derivatives for Improvement of Bioluminescence Resonance Energy Transfer Assays. <i>Journal of the American Chemical Society</i> , 2007, 129, 11900-11901. | 6.6 | 44 |
| 32 | Nuclear matrix-associated protein SMAR1 regulates alternative splicing via HDAC6-mediated deacetylation of Sam68. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3374-83. | 3.3 | 43 |
| 33 | Ferroelectric Materials for High Temperature Piezoelectric Applications. <i>Solid State Phenomena</i> , 0, 232, 235-278. | 0.3 | 41 |
| 34 | Near Infrared Fluorescence Imaging in Nano-Therapeutics and Photo-Thermal Evaluation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 924. | 1.8 | 40 |
| 35 | Targeting stem cells in the realm of drug-resistant breast cancer. <i>Breast Cancer: Targets and Therapy</i> , 2019, Volume 11, 115-135. | 1.0 | 33 |
| 36 | Clinical applications of aptamers and nucleic acid therapeutics in haematological malignancies. <i>British Journal of Haematology</i> , 2011, 155, 3-13. | 1.2 | 30 |

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|----|---|-----|-----------|
| 37 | An active IGF-1R-AKT signaling imparts functional heterogeneity in ovarian CSC population. <i>Scientific Reports</i> , 2016, 6, 36612. | 1.6 | 30 |
| 38 | Facile synthesis of plasmonic zein nanoshells for imaging-guided photothermal cancer therapy. <i>Materials Science and Engineering C</i> , 2018, 90, 539-548. | 3.8 | 28 |
| 39 | Noninvasive Preclinical Evaluation of Targeted Nanoparticles for the Delivery of Curcumin in Treating Pancreatic Cancer. <i>ACS Applied Bio Materials</i> , 2020, 3, 4643-4654. | 2.3 | 25 |
| 40 | Structural Characterization of Orthorhombic and Rhombohedral Lead Meta-Niobate Samples. <i>Integrated Ferroelectrics</i> , 2010, 120, 102-113. | 0.3 | 24 |
| 41 | Optical Imaging with Her2-Targeted Affibody Molecules Can Monitor Hsp90 Treatment Response in a Breast Cancer Xenograft Mouse Model. <i>Clinical Cancer Research</i> , 2012, 18, 1073-1081. | 3.2 | 24 |
| 42 | Use of BRET to Study Protein-Protein Interactions In Vitro and In Vivo. <i>Methods in Molecular Biology</i> , 2016, 1443, 57-78. | 0.4 | 24 |
| 43 | Tumor suppressor protein p53 exerts negative transcriptional regulation on human sodium iodide symporter gene expression in breast cancer. <i>Breast Cancer Research and Treatment</i> , 2017, 164, 603-615. | 1.1 | 23 |
| 44 | Î±-Actinin-4 confers radioresistance coupled invasiveness in breast cancer cells through AKT pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 196-208. | 1.9 | 23 |
| 45 | Soft drug-resistant ovarian cancer cells migrate via two distinct mechanisms utilizing myosin II-based contractility. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 392-405. | 1.9 | 22 |
| 46 | Comprehensive Evaluation of Degradable and Cost-Effective Plasmonic Nanoshells for Localized Photothermal Ablation of Cancer Cells. <i>Langmuir</i> , 2019, 35, 7805-7815. | 1.6 | 22 |
| 47 | The New Era of Bioluminescence Resonance Energy Transfer Technology. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 558-568. | 0.9 | 20 |
| 48 | NIR light-triggered shrinkable thermoresponsive PNVCL nanoshells for cancer theranostics. <i>RSC Advances</i> , 2017, 7, 44026-44034. | 1.7 | 20 |
| 49 | Enhancement of human sodium iodide symporter gene therapy for breast cancer by HDAC inhibitor mediated transcriptional modulation. <i>Scientific Reports</i> , 2016, 6, 19341. | 1.6 | 18 |
| 50 | Enhanced EPR directed and Imaging guided Photothermal Therapy using Vitamin E Modified Toco-Photocrosslinker. <i>Scientific Reports</i> , 2018, 8, 16673. | 1.6 | 18 |
| 51 | BF ₂ -Oxasmaragdyrin Nanoparticles: A Non-toxic, Photostable, Enhanced Non-radiative Decay-Assisted Efficient Photothermal Cancer Theragnostic Agent. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52329-52342. | 4.0 | 16 |
| 52 | Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Hindlimb Ischemia. <i>Journal of Visualized Experiments</i> , 2009, , . | 0.2 | 15 |
| 53 | Glycol chitosan assisted in situ reduction of gold on polymeric template for anti-cancer theranostics. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 392-398. | 3.6 | 15 |
| 54 | Plasmonic carbon nanohybrids for repetitive and highly localized photothermal cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 430-439. | 2.5 | 15 |

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|----|--|-----|-----------|
| 55 | Mono-guanidine heterolipid based SMEDDS: A promising tool for cytosolic delivery of antineoplastics. <i>Biomaterials</i> , 2015, 57, 116-132. | 5.7 | 14 |
| 56 | Reporter Gene Imaging in Therapy and Diagnosis. <i>Theranostics</i> , 2012, 2, 333-334. | 4.6 | 13 |
| 57 | Surfactant free novel one-minute microwave synthesis, characterization and cell toxicity study of mesoporous strontium hydroxyapatite nanorods. <i>RSC Advances</i> , 2016, 6, 94921-94926. | 1.7 | 13 |
| 58 | Decoding molecular interplay between RUNX1 and FOXO3a underlying the pulsatile IGF1R expression during acquirement of chemoresistance. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165754. | 1.8 | 13 |
| 59 | EpCAM-Mediated Cellular Plasticity Promotes Radiation Resistance and Metastasis in Breast Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 597673. | 1.8 | 13 |
| 60 | Dietary curcumin post-treatment enhances the disappearance of B(a)P-derived DNA adducts in mouse liver and lungs. <i>Toxicology Reports</i> , 2014, 1, 1181-1194. | 1.6 | 12 |
| 61 | Combined 2-deoxy glucose and metformin improves therapeutic efficacy of sodium-iodide symporter-mediated targeted radioiodine therapy in breast cancer cells. <i>Breast Cancer: Targets and Therapy</i> , 2015, 7, 251. | 1.0 | 12 |
| 62 | Intravitreal galactose conjugated polymeric nanoparticles of etoposide for retinoblastoma. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102259. | 1.4 | 12 |
| 63 | Applications of Lentiviral Vectors in Noninvasive Molecular Imaging. <i>Methods in Molecular Biology</i> , 2008, 433, 177-202. | 0.4 | 9 |
| 64 | Synthesis and study of electroactive nanoparticles and their polymer composites for novel applications. <i>Indian Journal of Physics</i> , 2010, 84, 1413-1419. | 0.9 | 8 |
| 65 | Newly emerging mesoporous strontium hydroxyapatite nanorods: microwave synthesis and relevance as doxorubicin nanocarrier. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1. | 0.8 | 8 |
| 66 | Regression of experimental NIS-expressing breast cancer brain metastases in response to radioiodide/gemcitabine dual therapy. <i>Oncotarget</i> , 2016, 7, 54811-54824. | 0.8 | 8 |
| 67 | Mannose glycosylation is an integral step for human NIS localization and function in breast cancer cells. <i>Journal of Cell Science</i> , 2019, 132, . | 1.2 | 7 |
| 68 | Noncanonical pS727 post translational modification dictates major STAT3 activation and downstream functions in breast cancer. <i>Experimental Cell Research</i> , 2020, 396, 112313. | 1.2 | 7 |
| 69 | pH-responsive delivery of anti-metastatic niclosamide using mussel inspired polydopamine nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120278. | 2.6 | 7 |
| 70 | Approaching non-canonical STAT3 signaling to redefine cancer therapeutic strategy. <i>Integrative Molecular Medicine</i> , 2017, 4, . | 0.3 | 7 |
| 71 | Reporter-Based BRET Sensors for Measuring Biological Functions In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1790, 51-74. | 0.4 | 6 |
| 72 | Bioinspired carrier-free peptide conjugated BF2-oxasmaragdyrin dye-based nano self-assemblies: a photostable NIR cancer theragnostic agent. <i>NPG Asia Materials</i> , 2020, 12, . | 3.8 | 6 |

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|----|---|-----|-----------|
| 73 | Application of Adult Stem Cells in Medicine. <i>Stem Cells International</i> , 2015, 2015, 1-2. | 1.2 | 5 |
| 74 | FOXA1 Regulation Turns Benzamide HDACi Treatment Effect-Specific in BC, Promoting NIS Gene-Mediated Targeted Radioiodine Therapy. <i>Molecular Therapy - Oncolytics</i> , 2020, 19, 93-104. | 2.0 | 5 |
| 75 | Preclinical evaluation of multi stimuli responsive core-plasmonic nanoshell for photo-triggered tumor ablation: A disintegrable nanohybrid. <i>Applied Materials Today</i> , 2020, 20, 100684. | 2.3 | 5 |
| 76 | pH-(Low)-Insertion Peptide-Assisted Detection and Diagnosis of Cancer Using Zinc Gallate-Based Persistent Luminescence Nanoparticles. <i>ACS Applied Bio Materials</i> , 2021, 4, 742-751. | 2.3 | 5 |
| 77 | Smart releasing CuS/ZnS nanocomposite dual drug carrier and photothermal agent for use as a theranostic tool for cancer therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103252. | 1.4 | 5 |
| 78 | Applications of lentiviral vectors in molecular imaging. <i>Frontiers in Bioscience - Landmark</i> , 2014, 19, 835. | 3.0 | 4 |
| 79 | Characteristics of Molecularly Engineered Anticancer Drug Conjugated Organic Nanomicelles for Site-Selective Cancer Cell Rupture and Growth Inhibition of Tumor Spheroids. <i>ACS Applied Bio Materials</i> , 2020, 3, 7067-7079. | 2.3 | 4 |
| 80 | IGF1R- β 6 integrin-S100A4 network governs the organ-specific metastasis of chemoresistant epithelial ovarian cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166282. | 1.8 | 4 |
| 81 | Engineering Aspects of Bioluminescence Resonance Energy Transfer Systems. , 2014, , 257-300. | | 4 |
| 82 | Split Luciferase Complementation Assay for Studying Interaction of Proteins X and Y in Living Mice. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4595-pdb.prot4595. | 0.2 | 4 |
| 83 | Bioluminescent Monitoring of NIS-Mediated ¹³¹ I Ablative Effects in MCF-7 Xenografts. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00008. | 0.7 | 4 |
| 84 | Multimodal Applications of Zinc Gallate-Based Persistent Luminescent Nanoparticles in Cancer Treatment: Tumor Margining, Diagnosis, and Boron Neutron Capture Therapy. <i>ACS Applied Bio Materials</i> , 2022, 5, 3134-3145. | 2.3 | 4 |
| 85 | Direct knockdown of phospho-PTM targets mediated by TRIM21 can improve personalized treatment in breast cancer. <i>Cellular Oncology (Dordrecht)</i> , 2022, 45, 873-891. | 2.1 | 4 |
| 86 | Bioluminescent monitoring of NIS-mediated (¹³¹ I) ablative effects in MCF-7 xenografts. <i>Molecular Imaging</i> , 2006, 5, 76-84. | 0.7 | 3 |
| 87 | <i>In Silico</i> Identification of Potential Phosphorylation in the Cytoplasmic Domain of Epithelial Cell Adhesion Molecule. <i>ACS Omega</i> , 2020, 5, 30808-30816. | 1.6 | 2 |
| 88 | The β -Secretase Protease Complexes in Neurodegeneration, Cancer and Immunity. , 2017, , 47-87. | | 2 |
| 89 | Split Luciferase Complementation Assay for Studying Interaction of Proteins X and Y in Cells. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4596-pdb.prot4596. | 0.2 | 2 |
| 90 | Cancer gene therapy: Prospects of using human sodium iodide symporter gene in non-thyroidal cancer. <i>Biomedical Research Journal</i> , 2015, 2, 198. | 0.4 | 2 |

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|----|---|-----|-----------|
| 91 | Dynamic monitoring of STAT3 activation in live cells using a novel STAT3 Phospho-BRET sensor. American Journal of Nuclear Medicine and Molecular Imaging, 2019, 9, 321-334. | 1.0 | 2 |
| 92 | Real-time visualization of RGD-quantum dot binding in tumor neovasculature using intravital microscopy in multiple living mouse models. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 93 | Raman micro-spectroscopic map estimating in vivo precision of tumor ablative effect achieved by photothermal therapy procedure. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102437. | 1.7 | 1 |
| 94 | Predicting response to platinum and non-platinum drugs through bioluminescence resonance energy transfer (BRET) based bio-molecular interactions in platinum resistant epithelial ovarian cancer. Translational Oncology, 2021, 14, 101193. | 1.7 | 1 |
| 95 | NANOTORRIDÂ®: Graphene-like properties of a gold/polypropylene nanocomposite and its photothermal application. Journal of Materials Research, 2022, 37, 1183-1200. | 1.2 | 1 |
| 96 | Quantum dots: Dynamic Visualization of RGD-Quantum Dot Binding to Tumor Neovasculature and Extravasation in Multiple Living Mouse Models Using Intravital Microscopy (Small 20/2010). Small, 2010, 6, n/a-n/a. | 5.2 | 0 |
| 97 | Abstract 477: Evaluation of tumor uptake and retention in a mouse model of breast cancer brain metastases by I-124 positron emission tomography (PET) imaging. , 2010, , . | | 0 |
| 98 | Image Guidance in Stem Cell Therapeutics: Unfolding the Blindfold. Current Drug Targets, 2015, 16, 658-671. | 1.0 | 0 |