Anirban Sen Gupta

List of Publications by Year
in descending order

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66 papers	3,688 citations	126907 33 h-index	133252 59 g-index
70 all docs	70 docs citations	70 times ranked	5123 citing authors

#	Article	IF	Citations
1	Photodynamic nanomedicine in the treatment of solid tumors: Perspectives and challenges. Journal of Controlled Release, 2013, 168, 88-102.	9.9	328
2	Biomaterials and Advanced Technologies for Hemostatic Management of Bleeding. Advanced Materials, 2018, 30, 1700859.	21.0	326
3	Platelet-like Nanoparticles: Mimicking Shape, Flexibility, and Surface Biology of Platelets To Target Vascular Injuries. ACS Nano, 2014, 8, 11243-11253.	14.6	284
4	Influence of particle size and shape on their margination and wall-adhesion: implications in drug delivery vehicle design across nano-to-micro scale. Nanoscale, 2018, 10, 15350-15364.	5.6	162
5	Delivery of the photosensitizer Pc 4 in PEGâ€“PCL micelles for in vitro PDT studies. Journal of Pharmaceutical Sciences, 2010, 99, 2386-2398.	3.3	151
6	Affinity manipulation of surface-conjugated RGD peptide to modulate binding of liposomes to activated platelets. Biomaterials, 2008, 29, 1676-1685.	11.4	125
7	Platelet microparticle-inspired clot-responsive nanomedicine for targeted fibrinolysis. Biomaterials, 2017, 128, 94-108.	11.4	123
8	EGF receptor-targeted nanocarriers for enhanced cancer treatment. Nanomedicine, 2012, 7, 1895-1906.	3.3	112
9	Factor XII and uPAR upregulate neutrophil functions to influence wound healing. Journal of Clinical Investigation, 2018, 128, 944-959.	8.2	103
10	Nanomedicine approaches in vascular disease: a review. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 763-779.	3.3	100
11	Approaches to synthetic platelet analogs. Biomaterials, 2013, 34, 526-541.	11.4	96
12	Role of particle size, shape, and stiffness in design of intravascular drug delivery systems: insights from computations, experiments, and nature. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 255-270.	6.1	88
13	InÂvitro and inÂvivo hemostatic capabilities of a functionally integrated platelet-mimetic liposomal nanoconstruct. Biomaterials, 2013, 34, 3031-3041.	11.4	83
14	RGD-modified liposomes targeted to activated platelets as a potential vascular drug delivery system. Thrombosis and Haemostasis, 2005, 93, 106-114.	3.4	82
15	Hemoglobin-based Oxygen Carriers: Current State-of-the-art and Novel Molecules. Shock, 2019, 52, 70-83.	2.1	75
16	Synthetic Approaches to RBC Mimicry and Oxygen Carrier Systems. Biomacromolecules, 2013, 14, 939-948.	5.4	74
17	EGFR-mediated intracellular delivery of Pc 4 nanoformulation for targeted photodynamic therapy of cancer: in vitro studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 655-664.	3.3	69
18	A polymer-based systemic hemostatic agent. Science Advances, 2020, 6, eaba0588.	10.3	69

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19	In vitro and in vivo platelet targeting by cyclic RGDâ€modified liposomes. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1004-1015.	4.0	62
20	Intravenous synthetic platelet (SynthoPlate) nanoconstructs reduce bleeding and improve â€˜golden hourâ€™ survival in a porcine model of traumatic arterial hemorrhage. Scientific Reports, 2018, 8, 3118.	3.3	60
21	Heteromultivalent liposomal nanoconstructs for enhanced targeting and shear-stable binding to active platelets for site-selective vascular drug delivery. Biomaterials, 2011, 32, 9504-9514.	11.4	58
22	Platelets and Platelet-Inspired Biomaterials Technologies in Wound Healing Applications. ACS Biomaterials Science and Engineering, 2018, 4, 1176-1192.	5.2	55
23	Bioâ€inspired nanomedicine strategies for artificial blood components. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1464.	6.1	53
24	Mimicking Adhesive Functionalities of Blood Platelets using Ligand-Decorated Liposomes. Bioconjugate Chemistry, 2012, 23, 1266-1275.	3.6	52
25	A Cell-Targeted Photodynamic Nanomedicine Strategy for Head and Neck Cancers. Molecular Pharmaceutics, 2013, 10, 1988-1997.	4.6	52
26	Peptide-Decorated Liposomes Promote Arrest and Aggregation of Activated Platelets under Flow on Vascular Injury Relevant Protein Surfaces in Vitro. Biomacromolecules, 2012, 13, 1495-1502.	5.4	51
27	InÂvitro characterization of SynthoPlateâ„¢ (synthetic platelet) technology and its inÂvivo evaluation in severely thrombocytopenic mice. Journal of Thrombosis and Haemostasis, 2017, 15, 375-387.	3.8	47
28	Synthesis and characterization of l-tyrosine based novel polyphosphates for potential biomaterial applications. Polymer, 2004, 45, 4653-4662.	3.8	45
29	The effects of PEG-based surface modification of PDMS microchannels on long-term hemocompatibility. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	4.0	45
30	Optimization of a Nanomedicine-Based Silicon Phthalocyanine 4 Photodynamic Therapy (Pc 4-PDT) Strategy for Targeted Treatment of EGFR-Overexpressing Cancers. Molecular Pharmaceutics, 2012, 9, 2331-2338.	4.6	44
31	ClotChip: A Microfluidic Dielectric Sensor for Point-of-Care Assessment of Hemostasis. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1459-1469.	4.0	36
32	Heteromultivalent ligand-decoration for actively targeted nanomedicine. Biomaterials, 2014, 35, 2568-2579.	11.4	35
33	Platelet-mimicking procoagulant nanoparticles augment hemostasis in animal models of bleeding. Science Translational Medicine, 2022, 14, eabb8975.	12.4	35
34	Intravenous administration of synthetic platelets (SynthoPlate) in a mouse liver injury model of uncontrolled hemorrhage improves hemostasis. Journal of Trauma and Acute Care Surgery, 2018, 84, 917-923.	2.1	34
35	Properties of l-tyrosine based polyphosphates pertinent to potential biomaterial applications. Polymer, 2005, 46, 2133-2140.	3.8	32
36	Ferric Chloride-induced Murine Thrombosis Models. Journal of Visualized Experiments, 2016, , .	0.3	32

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37	Biomimetic Fluorocarbon Surfactant Polymers Reduce Platelet Adhesion on PTFE/ePTFE Surfaces. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 619-635.	3.5	29
38	A Platelet-Mimetic Paradigm for Metastasis-Targeted Nanomedicine Platforms. Biomacromolecules, 2013, 14, 910-919.	5.4	28
39	Nanomedicine platform for targeting activated neutrophils and neutrophilâ€“platelet complexes using an Î±1-antitrypsin-derived peptide motif. Nature Nanotechnology, 2022, 17, 1004-1014.	31.5	26
40	Traumaâ€targeted delivery of tranexamic acid improves hemostasis and survival in rat liver hemorrhage model. Journal of Thrombosis and Haemostasis, 2019, 17, 1632-1644.	3.8	24
41	Plateletâ€inspired nanomedicine in hemostasis thrombosis and thromboinflammation. Journal of Thrombosis and Haemostasis, 2022, 20, 1535-1549.	3.8	23
42	A platelet-inspired paradigm for nanomedicine targeted to multiple diseases. Nanomedicine, 2013, 8, 1709-1727.	3.3	21
43	A factor VIII-derived peptide enables von Willebrand factor (VWF)-binding of artificial platelet nanoconstructs without interfering with VWF-adhesion of natural platelets. Nanoscale, 2014, 6, 4765-4773.	5.6	20
44	L-Tyrosine-based backbone-modified poly(amino acids). Journal of Biomaterials Science, Polymer Edition, 2002, 13, 1093-1104.	3.5	18
45	Targeted killing of metastatic cells using a platelet-inspired drug delivery system. RSC Advances, 2015, 5, 46218-46228.	3.6	18
46	Bioinspired artificial platelets: past, present and future. Platelets, 2022, 33, 35-47.	2.3	16
47	Vascular Nanomedicine: Current Status, Opportunities, and Challenges. Seminars in Thrombosis and Hemostasis, 2020, 46, 524-544.	2.7	15
48	Combination targeting of â€˜platelets + fibrinâ€™ enhances clot anchorage efficiency of nanoparticles for vascular drug delivery. Nanoscale, 2020, 12, 21255-21270.	5.6	15
49	Targeting Thymidine Phosphorylase With Tipiracil Hydrochloride Attenuates Thrombosis Without Increasing Risk of Bleeding in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 668-682.	2.4	14
50	Streptokinase Loading in Liposomes for Vascular Targeted Nanomedicine Applications: Encapsulation Efficiency and Effects of Processing. Journal of Biomaterials Applications, 2012, 26, 509-527.	2.4	11
51	A novel, pointâ€ofâ€care, wholeâ€blood assay utilizing dielectric spectroscopy is sensitive to coagulation factor replacement therapy in haemophilia A patients. Haemophilia, 2019, 25, 885-892.	2.1	11
52	Bioinspired artificial platelets for transfusion applications in traumatic hemorrhage. Transfusion, 2020, 60, 229-231.	1.6	10
53	Photoinitiator-free synthesis of endothelial cell-adhesive and enzymatically degradable hydrogels. Acta Biomaterialia, 2015, 13, 52-60.	8.3	9
54	Uncontrolled Hemorrhagic Shock Modeled via Liver Laceration in Mice with Real Time Hemodynamic Monitoring. Journal of Visualized Experiments, 2017, , .	0.3	8

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55	Platelet dysfunction after trauma: From mechanisms to targeted treatment. Transfusion, 2022, 62, .	1.6	8
56	Assessment of fibrinolytic status in whole blood using a dielectric coagulometry microsensor. Biosensors and Bioelectronics, 2022, 210, 114299.	10.1	7
57	Investigation of the solid phase synthesis of tyrosine-derived diphenol monomers with resin-bound carbodiimide coupling reagents. Journal of Polymer Science Part A, 2004, 42, 4906-4915.	2.3	6
58	Oxygen Carriers. , 2020, , 197-222.		6
59	Beyond the thrombus: Plateletâ€inspired nanomedicine approaches in inflammation, immune response, and cancer. Journal of Thrombosis and Haemostasis, 2022, 20, 1523-1534.	3.8	6
60	Intravenous Nanomedicine for Targeted Delivery of Thrombin to Augment Hemostasis. Blood, 2021, 138, 1029-1029.	1.4	3
61	Synthetic Platelets for Treatment of Traumatic Hemorrhage and Thrombocytopenia. Blood, 2019, 134, SCI-37-SCI-37.	1.4	2
62	Cardiovascular Nanomedicine: Materials and Technologies. Methods in Pharmacology and Toxicology, 2016, , 251-277.	0.2	1
63	Biomaterials-Based Strategies in Blood Substitutes. , 2015, , 113-137.		1
64	A Miniaturized Microfluidic Dielectric Sensor for Point-of-Care Assessment of Blood Coagulation. Blood, 2016, 128, 3754-3754.	1.4	1
65	Synthetic Blood Substitutes. , 2021, , 719-743.		1
66	Pass interference: Getting in the way of platelets. Journal of Thrombosis and Haemostasis, 2019, 17, 1414-1416.	3.8	0