

Navin Kumar Verma

List of Publications by Year in descending order

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95
papers

3,817
citations

126907

33
h-index

128289

60
g-index

101
all docs

101
docs citations

101
times ranked

7372
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and strategies for the synthesis of diverse nanoparticles and their applications: a comprehensive overview. RSC Advances, 2015, 5, 105003-105037.	3.6	519
2	Oncogenic activation of the STAT3 pathway drives PD-L1 expression in natural killer/T-cell lymphoma. Blood, 2018, 132, 1146-1158.	1.4	218
3	Possible Mechanism of Miltefosine-Mediated Death of Leishmania donovani. Antimicrobial Agents and Chemotherapy, 2004, 48, 3010-3015.	3.2	205
4	Magnetic core-shell nanoparticles for drug delivery by nebulization. Journal of Nanobiotechnology, 2013, 11, 1.	9.1	172
5	Bio-inspired in situ crosslinking and mineralization of electrospun collagen scaffolds for bone tissue engineering. Biomaterials, 2016, 104, 323-338.	11.4	166
6	Bio-inspired crosslinking and matrix-drug interactions for advanced wound dressings with long-term antimicrobial activity. Biomaterials, 2017, 138, 153-168.	11.4	165
7	Long-Term Real-Time In Vivo Drug Release Monitoring with AIE Thermogelling Polymer. Small, 2017, 13, 1603404.	10.0	140
8	Highly Efficient Supramolecular Aggregation-Induced Emission-Active Pseudorotaxane Luminogen for Functional Bioimaging. Biomacromolecules, 2017, 18, 886-897.	5.4	101
9	Miltefosine induces apoptosis in arsenite-resistant Leishmania donovani promastigotes through mitochondrial dysfunction. Experimental Parasitology, 2007, 116, 1-13.	1.2	91
10	STAT3-Stathmin Interactions Control Microtubule Dynamics in Migrating T-cells. Journal of Biological Chemistry, 2009, 284, 12349-12362.	3.4	90
11	Not Just an Adhesion Molecule: LFA-1 Contact Tunes the T Lymphocyte Program. Journal of Immunology, 2017, 199, 1213-1221.	0.8	83
12	Activation of stress-related signalling pathway in human cells upon SiO ₂ nanoparticles exposure as an early indicator of cytotoxicity. Journal of Nanobiotechnology, 2011, 9, 29.	9.1	73
13	Citrullination of proteins: a common post-translational modification pathway induced by different nanoparticles <i>in vitro</i> and <i>in vivo</i> . Nanomedicine, 2012, 7, 1181-1195.	3.3	72
14	Multifunctional Antimicrobial Nanofiber Dressings Containing μ -Polylysine for the Eradication of Bacterial Bioburden and Promotion of Wound Healing in Critically Colonized Wounds. ACS Applied Materials & Interfaces, 2020, 12, 15989-16005.	8.0	69
15	Multifunctional Polyphenols- and Catecholamines-Based Self-Defensive Films for Health Care Applications. ACS Applied Materials & Interfaces, 2016, 8, 1220-1232.	8.0	68
16	Design and Syntheses of Highly Potent Teixobactin Analogues against <i>Staphylococcus aureus</i> , Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA), and Vancomycin-Resistant Enterococci (VRE) <i>in Vitro</i> and <i>in Vivo</i> . Journal of Medicinal Chemistry, 2018, 61, 2009-2017.	6.4	67
17	Cytotoxicity evaluation of nanoclays in human epithelial cell line A549 using high content screening and real-time impedance analysis. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	64
18	LFA-1/ICAM-1 Ligation in Human T Cells Promotes Th1 Polarization through a GSK3 β Signaling-Dependent Notch Pathway. Journal of Immunology, 2016, 197, 108-118.	0.8	64

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19	Autophagy induction by silver nanowires: A new aspect in the biocompatibility assessment of nanocomposite thin films. <i>Toxicology and Applied Pharmacology</i> , 2012, 264, 451-461.	2.8	61
20	Core-Shell Structured Antimicrobial Nanofiber Dressings Containing Herbal Extract and Antibiotics Combination for the Prevention of Biofilms and Promotion of Cutaneous Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24356-24369.	8.0	61
21	Melanogenesis Inhibitors. <i>Acta Dermato-Venereologica</i> , 2018, 98, 924-931.	1.3	60
22	Phosphorylation of Rab5a Protein by Protein Kinase C μ Is Crucial for T-cell Migration. <i>Journal of Biological Chemistry</i> , 2014, 289, 19420-19434.	3.4	59
23	Poly- μ -Caprolactone/Gelatin Hybrid Electrospun Composite Nanofibrous Mats Containing Ultrasound Assisted Herbal Extract: Antimicrobial and Cell Proliferation Study. <i>Nanomaterials</i> , 2019, 9, 462.	4.1	58
24	Antimicrobial properties and biocompatibility of electrospun poly- μ -caprolactone fibrous mats containing <i>Gymnema sylvestre</i> leaf extract. <i>Materials Science and Engineering C</i> , 2019, 98, 503-514.	7.3	58
25	PPAR- β expression modulates insulin sensitivity in C2C12 skeletal muscle cells. <i>British Journal of Pharmacology</i> , 2004, 143, 1006-1013.	5.4	53
26	Antimicrobial Activity and Cell Selectivity of Synthetic and Biosynthetic Cationic Polymers. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	51
27	GapmeR cellular internalization by macropinocytosis induces sequence-specific gene silencing in human primary T-cells. <i>Scientific Reports</i> , 2016, 6, 37721.	3.3	49
28	Altered PPAR- β expression inhibits myogenic differentiation in C2C12 skeletal muscle cells. <i>Molecular and Cellular Biochemistry</i> , 2007, 294, 163-171.	3.1	48
29	Profiling Activity of Cellular Kinases in Migrating T-Cells. <i>Methods in Molecular Biology</i> , 2019, 1930, 99-113.	0.9	42
30	A new microtubule-targeting compound PBOX-15 inhibits T-cell migration via post-translational modifications of tubulin. <i>Journal of Molecular Medicine</i> , 2008, 86, 457-469.	3.9	41
31	STAT3 knockdown by siRNA induces apoptosis in human cutaneous T-cell lymphoma line Hut78 via downregulation of Bcl-xL. <i>Cellular and Molecular Biology Letters</i> , 2010, 15, 342-55.	7.0	41
32	Quantitative mass spectrometry of human reticulocytes reveal proteome-wide modifications during maturation. <i>British Journal of Haematology</i> , 2018, 180, 118-133.	2.5	40
33	Insight into membrane selectivity of linear and branched polyethylenimines and their potential as biocides for advanced wound dressings. <i>Acta Biomaterialia</i> , 2016, 37, 155-164.	8.3	37
34	Leukocyte Function-associated Antigen-1/Intercellular Adhesion Molecule-1 Interaction Induces a Novel Genetic Signature Resulting in T-cells Refractory to Transforming Growth Factor- β Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 27204-27216.	3.4	36
35	Drug loaded electrospun polymer/ceramic composite nanofibrous coatings on titanium for implant related infections. <i>Ceramics International</i> , 2019, 45, 18710-18720.	4.8	36
36	Green synthesis, characterization and antibacterial evaluation of electrospun nickel oxide nanofibers. <i>Materials Letters</i> , 2019, 256, 126616.	2.6	34

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37	Latent Oxidative Polymerization of Catecholamines as Potential Cross-linkers for Biocompatible and Multifunctional Biopolymer Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32266-32281.	8.0	29
38	Cadmium nanoparticles citrullinate cytokeratins within lung epithelial cells: cadmium as a potential cause of citrullination in chronic obstructive pulmonary disease. <i>International Journal of COPD</i> , 2018, Volume 13, 441-449.	2.3	29
39	Adaptor regulation of LFA β signaling in T lymphocyte migration: Potential druggable targets for immunotherapies?. <i>European Journal of Immunology</i> , 2014, 44, 3484-3499.	2.9	26
40	Influence of pH on the activity of thrombin-derived antimicrobial peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2374-2384.	2.6	25
41	Rational Substitution of μ -Lysine for \pm -Lysine Enhances the Cell and Membrane Selectivity of Pore-Forming Melittin. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3522-3537.	6.4	24
42	Pronounced peptide selectivity for melanoma through tryptophan end-tagging. <i>Scientific Reports</i> , 2016, 6, 24952.	3.3	22
43	Centrosome- and Golgi-Localized Protein Kinase N-Associated Protein Serves As a Docking Platform for Protein Kinase A Signaling and Microtubule Nucleation in Migrating T-Cells. <i>Frontiers in Immunology</i> , 2018, 9, 397.	4.8	22
44	Wound healing properties of magnesium mineralized antimicrobial nanofibre dressings containing chondroitin sulphate – a comparison between blend and core-shell nanofibres. <i>Biomaterials Science</i> , 2020, 8, 3454-3471.	5.4	22
45	The anti-leishmanial drug miltefosine causes insulin resistance in skeletal muscle cells in vitro. <i>Diabetologia</i> , 2006, 49, 1656-1660.	6.3	21
46	Surface characteristics and antimicrobial properties of modified catheter surfaces by polypyrogallol and metal ions. <i>Materials Science and Engineering C</i> , 2018, 90, 673-684.	7.3	21
47	Antimicrobial quaternary ammonium organosilane cross-linked nanofibrous collagen scaffolds for tissue engineering. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4473-4492.	6.7	20
48	Isolation of Human Peripheral Blood T-Lymphocytes. <i>Methods in Molecular Biology</i> , 2019, 1930, 11-17.	0.9	18
49	Analysis of dynamic tyrosine phosphoproteome in LFA β triggered migrating t cells. <i>Journal of Cellular Physiology</i> , 2011, 226, 1489-1498.	4.1	17
50	Extracellular K ⁺ Dampens T Cell Functions: Implications for Immune Suppression in the Tumor Microenvironment. <i>Bioelectricity</i> , 2019, 1, 169-179.	1.1	17
51	Antifungal properties of lecithin- and terbinafine-loaded electrospun poly(μ -caprolactone) nanofibres. <i>RSC Advances</i> , 2016, 6, 41130-41141.	3.6	15
52	Modulation of biological properties by grain refinement and surface modification on titanium surfaces for implant-related infections. <i>Journal of Materials Science</i> , 2019, 54, 13265-13282.	3.7	15
53	Combretastatin (CA)-4 and its novel analogue CA-432 impair T-cell migration through the Rho/ROCK signalling pathway. <i>Biochemical Pharmacology</i> , 2014, 92, 544-557.	4.4	13
54	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , 2016, 6, 65299-65310.	3.6	13

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55	Combating Microbial Contamination with Robust Polymeric Nanofibers: Elemental Effect on the Mussel-Inspired Cross-Linking of Electrospun Gelatin. <i>ACS Applied Bio Materials</i> , 2019, 2, 807-823.	4.6	13
56	RNA-mediated gene silencing: mechanisms and its therapeutic applications. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2004, 29, 395-404.	1.5	11
57	The microtubule targeting agent PBOX-15 inhibits integrin-mediated cell adhesion and induces apoptosis in acute lymphoblastic leukaemia cells. <i>International Journal of Oncology</i> , 2013, 42, 239-246.	3.3	10
58	Covalent Cysteine Targeting of Bruton's Tyrosine Kinase (BTK) Family by Withaferin-A Reduces Survival of Glucocorticoid-Resistant Multiple Myeloma MM1 Cells. <i>Cancers</i> , 2021, 13, 1618.	3.7	10
59	Toll-like Receptor 3 Agonist, Polyinosinic-polycytidylic Acid, Upregulates Carbonic Anhydrase II in Human Keratinocytes. <i>Acta Dermato-Venereologica</i> , 2018, 98, 762-765.	1.3	9
60	The Citrus Flavanone Hesperetin Induces Apoptosis in CTCL Cells via STAT3/Notch1/NF κ B-Mediated Signaling Axis. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2020, 20, 1459-1468.	1.7	9
61	DDX3X loss is an adverse prognostic marker in diffuse large B-cell lymphoma and is associated with chemoresistance in aggressive non-Hodgkin lymphoma subtypes. <i>Molecular Cancer</i> , 2021, 20, 134.	19.2	9
62	Protective Action of Linear Polyethylenimine against <i>Staphylococcus aureus</i> Colonization and Exaggerated Inflammation <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Infectious Diseases</i> , 2019, 5, 1411-1422.	3.8	8
63	The multi-facets of sustainable nanotechnology – Lessons from a nanosafety symposium. <i>Nanotoxicology</i> , 2015, 9, 404-406.	3.0	7
64	Prebiotics in atopic dermatitis prevention and management. <i>Journal of Functional Foods</i> , 2021, 78, 104352.	3.4	7
65	Integrated Analysis of Cancer Tissue and Vitreous Humor from Retinoblastoma Eyes Reveals Unique Tumor-Specific Metabolic and Cellular Pathways in Advanced and Non-Advanced Tumors. <i>Cells</i> , 2022, 11, 1668.	4.1	7
66	CG-NAP/Kinase Interactions Fine-Tune T Cell Functions. <i>Frontiers in Immunology</i> , 2019, 10, 2642.	4.8	6
67	A C-terminal peptide of TFPI-1 facilitates cytosolic delivery of nucleic acid cargo into mammalian cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183093.	2.6	6
68	Screening of ferrocenyl phosphines identifies a gold-coordinated derivative as a novel anticancer agent for hematological malignancies. <i>RSC Advances</i> , 2018, 8, 28960-28968.	3.6	5
69	Combination Therapy Using Inhalable GapmeR and Recombinant ACE2 for COVID-19. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 197.	3.5	5
70	The steroidal lactone withaferin A impedes T-cell motility by inhibiting the kinase ZAP70 and subsequent kinome signaling. <i>Journal of Biological Chemistry</i> , 2021, 297, 101377.	3.4	5
71	GSK3 β Interacts With CRMP2 and Notch1 and Controls T-Cell Motility. <i>Frontiers in Immunology</i> , 2021, 12, 680071.	4.8	5
72	Computational Analysis of Protein-Protein Interactions in Motile T-Cells. <i>Methods in Molecular Biology</i> , 2019, 1930, 149-156.	0.9	3

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73	An Introduction to LFA-1/ICAM-1 Interactions in T-Cell Motility. <i>Methods in Molecular Biology</i> , 2019, 1930, 1-9.	0.9	3
74	Carbonic anhydrases in human keratinocytes and their regulation by all-trans retinoic acid and 1 α ,25-dihydroxyvitamin D ₃ . <i>Experimental Dermatology</i> , 2019, 28, 976-980.	2.9	2
75	Live Cell Imaging and Analysis to Capture T-Cell Motility in Real-Time. <i>Methods in Molecular Biology</i> , 2019, 1930, 33-40.	0.9	2
76	A Laboratory Model to Study T-Cell Motility. <i>Methods in Molecular Biology</i> , 2019, 1930, 19-23.	0.9	2
77	Rationalisation of Antifungal Properties of α -Helical Pore-Forming Peptide, Mastoparan B. <i>Molecules</i> , 2022, 27, 1438.	3.8	2
78	Quantification of T-Cell Migratory Phenotypes Using High-Content Analysis. <i>Methods in Molecular Biology</i> , 2019, 1930, 25-32.	0.9	1
79	Three-Dimensional Structured Illumination Microscopy (3D-SIM) to Dissect Signaling Cross-Talks in Motile T-Cells. <i>Methods in Molecular Biology</i> , 2019, 1930, 41-50.	0.9	1
80	GapmeR-Mediated Gene Silencing in Motile T-Cells. <i>Methods in Molecular Biology</i> , 2019, 1930, 67-73.	0.9	1
81	Quantitative Real-Time PCR for Evaluating Transcriptional Changes in T-Lymphocytes. <i>Methods in Molecular Biology</i> , 2019, 1930, 59-66.	0.9	1
82	Real-Time Impedance-Based Detection of LFA-1-Stimulated T-Cell Transwell Chemotaxis. <i>Methods in Molecular Biology</i> , 2019, 1930, 51-57.	0.9	1
83	Editorial: Adaptor Protein Regulation in Immune Signalling. <i>Frontiers in Immunology</i> , 2020, 11, 441.	4.8	1
84	ABO111...Cadmium nanoparticles citrullinate intracellular cytokeratins: cadmium potentially links rheumatoid arthritis to smoking and numerous working class occupations. , 2017, , .		0
85	Activation of Potassium Channel as a New Strategy to Boost Antitumour Immune Response. <i>Biophysical Journal</i> , 2019, 116, 249a.	0.5	0
86	^{99m} Tc-MAG3 diuresis renography in differentiating renal obstruction: Using statistical parameters as new quantifiable indices. <i>Computers in Biology and Medicine</i> , 2019, 112, 103371.	7.0	0
87	Phosphoprotein Enrichment for Protein Analysis in Motile T-Lymphocytes. <i>Methods in Molecular Biology</i> , 2019, 1930, 83-90.	0.9	0
88	Immunometabolomic Phenotyping of Motile T-Cells. <i>Methods in Molecular Biology</i> , 2019, 1930, 91-98.	0.9	0
89	A Protocol to Study T-Cell Signaling in an Immune Synapse by Microscopy. <i>Methods in Molecular Biology</i> , 2019, 1930, 123-128.	0.9	0
90	Enzyme-Linked Immunosorbent Assay for T-Cell Dependent Immunogenicity Assessment of Therapeutic Peptides. <i>Methods in Molecular Biology</i> , 2019, 1930, 129-138.	0.9	0

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91	Abstract B81: Combretastatin (CA)-4 and its novel analogue CA-432 impair T-cell migration through the Rho/ROCK signalling pathway. , 2015, , .		0
92	Electrospun Linear and Branched Nanofibrous Scaffolds for Potential Therapeutic Application in Melanoma. Journal of Cancer Research and Oncobiology, 2018, 1, .	0.1	0
93	Targeted Gene Silencing in Malignant Hematolymphoid Cells Using GapmeR. Methods in Molecular Biology, 2020, 2176, 209-219.	0.9	0
94	A new kCa3.1 channel activator SKA-346 boosts T-cell antitumor response in the immune suppressive microenvironment. Biophysical Journal, 2022, 121, 176a.	0.5	0
95	inPhocus: Current State and Challenges of Phage Research in Singapore. Phage, 2022, 3, 6-11.	1.7	0