

# Veena Koul

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

3,121  
citations

101543

36  
h-index

168389

53  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4939  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatibility evaluation for the developed hydrogel wound dressing " ISO-10993-11 standards " in vitro and in vivo study. Biomedical Physics and Engineering Express, 2022, 8, 015010.	1.2	9
2	Fabrication and evaluation of antimicrobial biomimetic nanofiber coating for improved dental implant bioseal: An in vitro study. Journal of Periodontology, 2022, 93, 1578-1588.	3.4	4
3	Fabrication of <i>In Situ</i> Layered Hydrogel Scaffold for the Co-delivery of PGDF-BB/Chlorhexidine to Regulate Proinflammatory Cytokines, Growth Factors, and MMP-9 in a Diabetic Skin Defect Albino Rat Model. Biomacromolecules, 2021, 22, 1885-1900.	5.4	13
4	Preclinical efficacy study of a porous biopolymeric scaffold based on gelatin-hyaluronic acid-chondroitin sulfate in a porcine burn injury model: role of critical molecular markers (VEGFA,) Tj ETQq0 0 0 rgBT (Overlock 10 Tf 50 3.3 7 Biomedical Materials (Bristol), 2021, 16, 055020.	3.3	7
5	Critical Role of Etching Parameters in the Evolution of Nano Micro SLA Surface on the Ti6Al4V Alloy Dental Implants. Materials, 2021, 14, 6344.	2.9	8
6	Dual functionalized chitosan based composite hydrogel for haemostatic efficacy and adhesive property. Carbohydrate Polymers, 2020, 247, 116757.	10.2	41
7	Bacosides Encapsulated in Lactoferrin Conjugated PEG-PLA-PCL-OH Based Polymersomes Act as Epigenetic Modulator in Chemically Induced Amnesia. Neurochemical Research, 2020, 45, 796-808.	3.3	15
8	Fabrication and evaluation of gelatin/hyaluronic acid/chondroitin sulfate/asiatic acid based biopolymeric scaffold for the treatment of second-degree burn wounds " Wistar rat model study. Biomedical Materials (Bristol), 2020, 15, 055016.	3.3	14
9	Modulating neutrophil extracellular traps for wound healing. Biomaterials Science, 2020, 8, 3212-3223.	5.4	31
10	Investigation of ultrafine gold nanoparticles (AuNPs) based nanoformulation as single conjugates target delivery for improved methotrexate chemotherapy in breast cancer. International Journal of Pharmaceutics, 2019, 569, 118561.	5.2	12
11	Effect of acid etching temperature on surface physiochemical properties and cytocompatibility of Ti6Al4V ELI alloy. Materials Research Express, 2019, 6, 105412.	1.6	6
12	Biosafety of unmodified ultrafine gold particles (AuPs) upon interacting with human blood components before systemic use. Regulatory Toxicology and Pharmacology, 2019, 107, 104405.	2.7	2
13	Design, preparation, and evaluation of liposomal gel formulations for treatment of acne:<i>in vitro</i>and<i>in vivo</i>studies. Drug Development and Industrial Pharmacy, 2019, 45, 395-404.	2.0	36
14	Redox Responsive Polymersomes for Enhanced Doxorubicin Delivery. ACS Biomaterials Science and Engineering, 2019, 5, 70-80.	5.2	25
15	Comparative Assessment of Active Targeted Redox Sensitive Polymersomes Based on pPEGMA-S-S-PLA Diblock Copolymer with Marketed Nanoformulation. Biomacromolecules, 2018, 19, 2549-2566.	5.4	28
16	Evaluation of nano hydrogel composite based on gelatin/HA/CS suffused with Asiatic acid/ZnO and CuO nanoparticles for second degree burns. Materials Science and Engineering C, 2018, 89, 378-386.	7.3	67
17	Bio-functionalization of grade V titanium alloy with type I human collagen for enhancing and promoting human periodontal fibroblast cell adhesion " an in-vitro study. Colloids and Surfaces B: Biointerfaces, 2018, 161, 1-9.	5.0	29
18	Lactoferrin-conjugated pH and redox-sensitive polymersomes based on PEG-S-S-PLA-PCL-OH boost delivery of bacosides to the brain. Nanoscale, 2018, 10, 17781-17798.	5.6	27

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19	Polymeric Gels: Vehicles for Enhanced Drug Delivery Across Skin. Gels Horizons: From Science To Smart Materials, 2018, , 343-375.	0.3	1
20	Effective permeation of 2.5 and 5% lidocaine hydrochloride in human skin using iontophoresis technique. International Journal of Dermatology, 2018, 57, 1335-1343.	1.0	7
21	Nanofibrous artificial skin substitute composed of mPEG-PCL grafted gelatin/hyaluronan/chondroitin sulfate/sericin for 2nd degree burn care: in vitro and in vivo study. RSC Advances, 2018, 8, 16420-16432.	3.6	36
22	Self assembled dual responsive micelles stabilized with protein for co-delivery of drug and siRNA in cancer therapy. Biomaterials, 2017, 133, 94-106.	11.4	75
23	Biomimetic electrospun scaffolds from main extracellular matrix components for skin tissue engineering application - The role of chondroitin sulfate and sulfated hyaluronan. Materials Science and Engineering C, 2017, 79, 15-22.	7.3	60
24	Applications of Nanomaterials in Dental Science: A Review. Journal of Nanoscience and Nanotechnology, 2017, 17, 2235-2255.	0.9	45
25	Combinatorial delivery of superparamagnetic iron oxide nanoparticles ( $\text{Fe}_3\text{O}_4$ ) and doxorubicin using folate conjugated redox sensitive multiblock polymeric nanocarriers for enhancing the chemotherapeutic efficacy in cancer cells. Materials Science and Engineering C, 2017, 75, 1128-1143.	7.3	24
26	Core-Shell Nanoparticles as an Efficient, Sustained, and Triggered Drug-Delivery System. ACS Omega, 2017, 2, 6455-6463.	3.5	58
27	ATRP Fabricated and Short Chain Polyethylenimine Grafted Redox Sensitive Polymeric Nanoparticles for Codelivery of Anticancer Drug and siRNA in Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 39672-39687.	8.0	31
28	Reciprocal influence of hMSCs/HaCaT cultivated on electrospun scaffolds. Journal of Materials Science: Materials in Medicine, 2017, 28, 128.	3.6	5
29	Folic acid and trastuzumab conjugated redox responsive random multiblock copolymeric nanocarriers for breast cancer therapy: In-vitro and in-vivo studies. Colloids and Surfaces B: Biointerfaces, 2017, 149, 369-378.	5.0	47
30	The Molecular Links of Re-Emerging Therapy: A Review of Evidence of Brahmi (Bacopa monniera). Frontiers in Pharmacology, 2016, 7, 44.	3.5	65
31	In vitro and in vivo investigational studies of a nanocomposite hydrogel-based dressing with a silver-coated chitosan wafer for full-thickness skin wounds. Journal of Applied Polymer Science, 2016, 133, .	2.6	39
32	Fabrication of transparent quaternized PVA/silver nanocomposite hydrogel and its evaluation as an antimicrobial patch for wound care systems. Journal of Materials Science: Materials in Medicine, 2016, 27, 160.	3.6	21
33	Click modified amphiphilic graft copolymeric micelles of poly(styrene-alt-maleic anhydride) for combinatorial delivery of doxorubicin and plk-1 siRNA in cancer therapy. Journal of Materials Chemistry B, 2016, 4, 7303-7313.	5.8	10
34	Biokinetics of ultrafine gold nanoparticles (AuNPs) relating to redistribution and urinary excretion: a long-term in vivo study. Journal of Drug Targeting, 2016, 24, 720-729.	4.4	40
35	Co-cultivation of keratinocyte-human mesenchymal stem cell (hMSC) on sericin loaded electrospun nanofibrous composite scaffold (cationic gelatin/hyaluronan/chondroitin sulfate) stimulates epithelial differentiation in hMSCs: In vitro study. Biomaterials, 2016, 88, 83-96.	11.4	86
36	Water dispersible CoFe <sub>2</sub> O <sub>4</sub> nanoparticles with improved colloidal stability for biomedical applications. Journal of Magnetism and Magnetic Materials, 2016, 404, 166-169.	2.3	73

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37	Assessment of PVA/silver nanocomposite hydrogel patch as antimicrobial dressing scaffold: Synthesis, characterization and biological evaluation. <i>Materials Science and Engineering C</i> , 2016, 59, 109-119.	7.3	119
38	Antimicrobial Peptide Mimicking Primary Amine and Guanidine Containing Methacrylamide Copolymers Prepared by Raft Polymerization. <i>Biomacromolecules</i> , 2015, 16, 3845-3852.	5.4	58
39	Multifunctional ATRP based pH responsive polymeric nanoparticles for improved doxorubicin chemotherapy in breast cancer by proton sponge effect/endo-lysosomal escape. <i>Polymer Chemistry</i> , 2015, 6, 2115-2132.	3.9	54
40	Folic Acid and Trastuzumab Functionalized Redox Responsive Polymersomes for Intracellular Doxorubicin Delivery in Breast Cancer. <i>Biomacromolecules</i> , 2015, 16, 1736-1752.	5.4	106
41	An investigation study of gelatin release from semi-interpenetrating polymeric network hydrogel patch for excision wound healing on <i>Wistar</i> rat model. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
42	ROP and ATRP Fabricated Dual Targeted Redox Sensitive Polymersomes Based on pPEGMA-PCL-ss-PCL-pPEGMA Triblock Copolymers for Breast Cancer Therapeutics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9211-9227.	8.0	70
43	Synthesis and evaluation of cationically modified poly(styrene-alt-maleic anhydride) nanocarriers for intracellular gene delivery. <i>RSC Advances</i> , 2015, 5, 21931-21944.	3.6	9
44	Synthesis and biological evaluation of dual functionalized glutathione sensitive poly(ester-urethane) multiblock polymeric nanoparticles for cancer targeted drug delivery. <i>Polymer Chemistry</i> , 2015, 6, 7603-7617.	3.9	18
45	Targeted Drug Delivery to Central Nervous System (CNS) for the Treatment of Neurodegenerative Disorders: Trends and Advances. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2014, 14, 43-59.	1.1	41
46	AS1411 Aptamer and Folic Acid Functionalized pH-Responsive ATRP Fabricated pPEGMA-PCL-pPEGMA Polymeric Nanoparticles for Targeted Drug Delivery in Cancer Therapy. <i>Biomacromolecules</i> , 2014, 15, 1737-1752.	5.4	113
47	Assessment of multicomponent hydrogel scaffolds of poly(acrylic acid-2-hydroxy ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 27, 848-861.	2.4	46
48	Synthesis and characterization of positively charged interpenetrating double-network hydrogel matrices for biomedical applications. <i>Reactive and Functional Polymers</i> , 2013, 73, 1493-1499.	4.1	19
49	Bi-Layer Composite Dressing of Gelatin Nanofibrous Mat and Poly Vinyl Alcohol Hydrogel for Drug Delivery and Wound Healing Application: <i>In-Vitro</i> and <i>In-Vivo</i> Studies. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1495-1508.	1.1	48
50	Interpenetrating Polymer Networks Based on Gelatin and Poly(Vinyl Pyrrolidone): Evaluation of Degradation, Histocompatibility, Cytotoxicity, and Drug Release. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 1115-1129.	3.4	7
51	Transdermal delivery of methotrexate: past, present and future prospects. <i>Therapeutic Delivery</i> , 2012, 3, 315-325.	2.2	29
52	Antimicrobial Poly(methacrylamide) Derivatives Prepared via Aqueous RAFT Polymerization Exhibit Biocidal Efficiency Dependent upon Cation Structure. <i>Biomacromolecules</i> , 2012, 13, 2472-2482.	5.4	66
53	Cell adhesion and proliferation studies on semi-interpenetrating polymeric networks (semi-IPNs) of polyacrylamide and gelatin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 98B, 342-350.	3.4	28
54	Evaluation of folate conjugated pegylated thermosensitive magnetic nanocomposites for tumor imaging and therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 160-167.	5.0	63

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55	Interpenetrating polymer network (IPN) nanogels based on gelatin and poly(acrylic acid) by inverse miniemulsion technique: Synthesis and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 204-213.	5.0	80
56	Biophysical assessment of DC iontophoresis and current density on transdermal permeation of methotrexate. <i>International Journal of Pharmaceutical Investigation</i> , 2011, 1, 234.	0.3	14
57	Characterization and cell material interactions of PEGylated PNIPAAm nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 164-173.	5.0	37
58	Polycaprolactone diacrylate crosslinked biodegradable semi-interpenetrating networks of polyacrylamide and gelatin for controlled drug delivery. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 065014.	3.3	53
59	Electroporation of polymeric nanoparticles: an alternative technique for transdermal delivery of insulin. <i>Drug Development and Industrial Pharmacy</i> , 2010, 36, 1303-1311.	2.0	44
60	Investigation on the synergistic effect of a combination of chemical enhancers and modulated iontophoresis for transdermal delivery of insulin. <i>Drug Development and Industrial Pharmacy</i> , 2010, 36, 993-1004.	2.0	26
61	Receptor Specific Macrophage Targeting by Mannose-Conjugated Gelatin Nanoparticles- An In Vitro and In Vivo Study. <i>Current Nanoscience</i> , 2010, 6, 413-421.	1.2	18
62	Synthesis and characterization of biodegradable interpenetrating polymer networks based on gelatin and divinyl ester synthesized from poly(caprolactone diol). <i>Journal of Applied Polymer Science</i> , 2009, 111, 1478-1487.	2.6	5
63	Evaluation of pharmacological efficacy of "insulin" surfoplex™ encapsulated polymer vesicles. <i>International Journal of Pharmaceutics</i> , 2009, 373, 107-115.	5.2	22
64	Flexible polymerosomes" An alternative vehicle for topical delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 72, 161-166.	5.0	54
65	Studies on in vitro and in vivo transdermal flux enhancement of methotrexate by a combinational approach in comparison to oral delivery. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 1281-1292.	2.0	16
66	Polymerosomes of PCL and PEG Demonstrate Enhanced Therapeutic Efficacy of Insulin. <i>Current Nanoscience</i> , 2009, 5, 409-416.	1.2	9
67	Studies on copolymerization of N-isopropylacrylamide with poly(ethylene glycol) methacrylate. <i>European Polymer Journal</i> , 2008, 44, 2962-2970.	5.4	16
68	Radiation synthesis of interpenetrating polymer networks based on N-vinyl pyrrolidone " acrylic acid copolymer and gelatin. I. Swelling, morphology, and thermal characterization for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1456-1463.	2.6	21
69	Effect of DC/mDC iontophoresis and terpenes on transdermal permeation of methotrexate: In vitro study. <i>International Journal of Pharmaceutics</i> , 2007, 333, 70-78.	5.2	38
70	Synthesis and characterization of poly(N-isopropylacrylamide) films by photopolymerization. <i>Polymers for Advanced Technologies</i> , 2006, 17, 186-192.	3.2	34
71	Efficacy of antibiotics-loaded interpenetrating network (IPNs) hydrogel based on poly(acrylic acid) and gelatin for treatment of experimental osteomyelitis: in vivo study. <i>Biomaterials</i> , 2005, 26, 2095-2104.	11.4	52
72	Studies on biodegradation and release of gentamicin sulphate from interpenetrating network hydrogels based on poly(acrylic acid) and gelatin: in vitro and in vivo. <i>Biomaterials</i> , 2004, 25, 139-146.	11.4	99

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73	Effect of composition of interpenetrating polymer network hydrogels based on poly(acrylic acid) and gelatin on tissue response: A quantitative in vivo study. Journal of Biomedical Materials Research Part B, 2004, 68A, 210-218.	3.1	53
74	The effect of composition of poly(acrylic acid)-gelatin hydrogel on gentamicin sulphate release: in vitro. Biomaterials, 2003, 24, 527-536.	11.4	140
75	Interpenetrating polymer networks based on poly(acrylic acid) and gelatin. I: Swelling and thermal behavior. Journal of Applied Polymer Science, 2001, 82, 217-227.	2.6	89
76	Two-year clinical efficacy trial with dose variations of a vas deferens injectable contraceptive for the male. Contraception, 1998, 58, 165-174.	1.5	14
77	Reversibility with sodium bicarbonate of styrene maleic anhydride, an intravasal injectable contraceptive, in male rats. Contraception, 1998, 58, 227-231.	1.5	38
78	Phase II clinical trial of a vas deferens injectable contraceptive for the male. Contraception, 1997, 56, 245-250.	1.5	77
79	Radiation grafting of acrylic acid on to polypropylene filaments. I: Effect of reaction conditions. Polymer International, 1993, 30, 411-415.	3.1	6
80	Phase I clinical trial of an injectable contraceptive for the male. Contraception, 1993, 48, 367-375.	1.5	62