Hitesh Handa

List of Publications by Year in descending order

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117571 143943 3,801 91 34 57 h-index citations g-index papers 93 93 93 3681 all docs docs citations times ranked citing authors

| # | Article | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Bioinspired ultra-low fouling coatings on medical devices to prevent device-associated infections and thrombosis. Journal of Colloid and Interface Science, 2022, 608, 1015-1024. | 5.0 | 26 |
| 2 | A review on antibacterial silk fibroin-based biomaterials: current state and prospects. Materials Today Chemistry, 2022, 23, 100673. | 1.7 | 33 |
| 3 | Potent, Broad-Spectrum Antimicrobial Effects of <i>S-</i> Nitroso- <i>N</i> -acetylpenicillamine-Impregnated Nitric Oxide-Releasing Latex Urinary Catheters. ACS Applied Bio Materials, 2022, 5, 700-710. | 2.3 | 10 |
| 4 | Improved Polymer Hemocompatibility for Blood-Contacting Applications via <i>S</i> -Nitrosoglutathione Impregnation. ACS Applied Materials & Distribution (1998) and the state of the state o | 4.0 | 6 |
| 5 | Nitric Oxide-Releasing Lock Solution for the Prevention of Catheter-Related Infection and Thrombosis. ACS Applied Bio Materials, 2022, 5, 1519-1527. | 2.3 | 11 |
| 6 | Nitric Oxide-Releasing Gelatin Methacryloyl/Silk Fibroin Interpenetrating Polymer Network Hydrogels for Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2022, 8, 273-283. | 2.6 | 18 |
| 7 | Development and <i>In Vitro</i> Whole Blood Hemocompatibility Screening of Endothelium-Mimetic Multifunctional Coatings. ACS Applied Bio Materials, 2022, 5, 2212-2223. | 2.3 | 7 |
| 8 | Dual Action Nitric Oxide and Fluoride Ion-Releasing Hydrogels for Combating Dental Caries. ACS Applied Materials & Samp; Interfaces, 2022, 14, 21916-21930. | 4.0 | 14 |
| 9 | Bio-inspired hemocompatible surface modifications for biomedical applications. Progress in Materials Science, 2022, 130, 100997. | 16.0 | 23 |
| 10 | Nitric Oxide-Releasing Nanofibrous Scaffolds Based on Silk Fibroin and Zein with Enhanced Biodegradability and Antibacterial Properties. ACS Biomaterials Science and Engineering, 2022, 8, 3066-3077. | 2.6 | 12 |
| 11 | Sâ€Nitrosoglutathioneâ€Based Nitric Oxideâ€Releasing Nanofibers Exhibit Dual Antimicrobial and Antithrombotic Activity for Biomedical Applications. Macromolecular Bioscience, 2021, 21, e2000248. | 2.1 | 21 |
| 12 | Nitric oxide and viral infection: Recent developments in antiviral therapies and platforms. Applied Materials Today, 2021, 22, 100887. | 2.3 | 29 |
| 13 | Characterization of a nitric oxide (NO) donor molecule and cerium oxide nanoparticle (CNP) interactions and their synergistic antimicrobial potential for biomedical applications. Journal of Colloid and Interface Science, 2021, 586, 163-177. | 5.0 | 33 |
| 14 | Highly hydrophobic polytetrafluoroethylene particle immobilization via polydopamine anchor layer on nitric oxide releasing polymer for biomedical applications. Journal of Colloid and Interface Science, 2021, 585, 716-728. | 5.0 | 13 |
| 15 | Tethered Liquid Perfluorocarbon Coating for 72 Hour Heparin-Free Extracorporeal Life Support. ASAIO Journal, 2021, 67, 798-808. | 0.9 | 16 |
| 16 | Development of Novel Amphotericin B-Immobilized Nitric Oxide-Releasing Platform for the Prevention of Broad-Spectrum Infections and Thrombosis. ACS Applied Materials & Samp; Interfaces, 2021, 13, 19613-19624. | 4.0 | 17 |
| 17 | A multifunctional polymeric coating incorporating lawsone with corrosion resistance and antibacterial activity for biomedical Mg alloys. Progress in Organic Coatings, 2021, 153, 106157. | 1.9 | 25 |
| 18 | Nitric oxide releasing halloysite nanotubes for biomedical applications. Journal of Colloid and Interface Science, 2021, 590, 277-289. | 5.0 | 21 |

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| 19 | A Synergistic New Approach Toward Enhanced Antibacterial Efficacy via Antimicrobial Peptide Immobilization on a Nitric Oxide-Releasing Surface. ACS Applied Materials & Diterfaces, 2021, 13, 43892-43903. | 4.0 | 21 |
| 20 | Cellulose nanocrystal reinforced silk fibroin coating for enhanced corrosion protection and biocompatibility of Mg-based alloys for orthopedic implant applications. Progress in Organic Coatings, 2021, 161, 106525. | 1.9 | 11 |
| 21 | Combination strategies for antithrombotic biomaterials: an emerging trend towards hemocompatibility. Biomaterials Science, 2021, 9, 2413-2423. | 2.6 | 32 |
| 22 | Synergistic Approach to Develop Antibacterial Electrospun Scaffolds Using Honey and $\langle i \rangle S \langle j \rangle -Nitroso -\langle i \rangle N \langle j \rangle -acetyl Penicillamine. ACS Biomaterials Science and Engineering, 2021, 7, 517-526.$ | 2.6 | 21 |
| 23 | Covalently Bound <i>S</i> -Nitroso- <i>N</i> -Acetylpenicillamine to Electrospun Polyacrylonitrile Nanofibers for Multifunctional Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2021, 7, 5279-5287. | 2.6 | 7 |
| 24 | Reduction in Foreign Body Response and Improved Antimicrobial Efficacy via Silicone-Oil-Infused Nitric-Oxide-Releasing Medical-Grade Cannulas. ACS Applied Materials & Samp; Interfaces, 2021, 13, 52425-52434. | 4.0 | 12 |
| 25 | Surface-Catalyzed Nitric Oxide Release via a Metal Organic Framework Enhances Antibacterial Surface Effects. ACS Applied Materials & Samp; Interfaces, 2021, 13, 56931-56943. | 4.0 | 32 |
| 26 | Heparin-Free Extracorporeal Life Support Using Tethered Liquid Perfluorocarbon: A Feasibility and Efficacy Study. ASAIO Journal, 2020, 66, 809-817. | 0.9 | 23 |
| 27 | Assessing and improving the biocompatibility of microfluidic artificial lungs. Acta Biomaterialia, 2020, 112, 190-201. | 4.1 | 17 |
| 28 | Silk Nanoparticles: A Natural Polymeric Platform for Nitric Oxide Delivery in Biomedical Applications. ACS Applied Materials & Samp; Interfaces, 2020, 12, 53615-53623. | 4.0 | 26 |
| 29 | Highly Efficient Antimicrobial Activity of CuxFeyOz Nanoparticles against Important Human Pathogens. Nanomaterials, 2020, 10, 2294. | 1.9 | 6 |
| 30 | Toward an artificial endothelium: Development of blood-compatible surfaces for extracorporeal life support. Journal of Trauma and Acute Care Surgery, 2020, 89, S59-S68. | 1.1 | 24 |
| 31 | Electrospun Bioabsorbable Fibers Containing <i>S</i> -Nitrosoglutathione for Tissue Engineering Applications. ACS Applied Bio Materials, 2020, 3, 7677-7686. | 2.3 | 8 |
| 32 | Fabrication of Bacteria- and Blood-Repellent Superhydrophobic Polyurethane Sponge Materials. ACS Applied Materials & Samp; Interfaces, 2020, 12, 51160-51173. | 4.0 | 46 |
| 33 | <i>S</i> à€Nitrosoâ€ <i>Nâ€</i> acetylpenicillamine impregnated endotracheal tubes for prevention of ventilatorâ€associated pneumonia. Biotechnology and Bioengineering, 2020, 117, 2237-2246. | 1.7 | 15 |
| 34 | H ₂ S-Releasing Composite: a Gasotransmitter Platform for Potential Biomedical Applications. ACS Biomaterials Science and Engineering, 2020, 6, 2062-2071. | 2.6 | 9 |
| 35 | Nanoparticles Encapsulating Nitrosylated Maytansine To Enhance Radiation Therapy. ACS Nano, 2020, 14, 1468-1481. | 7.3 | 69 |
| 36 | Multipronged Approach to Combat Catheter-Associated Infections and Thrombosis by Combining Nitric Oxide and a Polyzwitterion: a 7 Day In Vivo Study in a Rabbit Model. ACS Applied Materials & Interfaces, 2020, 12, 9070-9079. | 4.0 | 21 |

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| 37 | Mimicking the Endothelium: Dual Action Heparinized Nitric Oxide Releasing Surface. ACS Applied Materials & Samp; Interfaces, 2020, 12, 20158-20171. | 4.0 | 31 |
| 38 | Versatile biomimetic medical device surface: hydrophobin coated, nitric oxide-releasing polymer for antimicrobial and hemocompatible applications. Biomaterials Science, 2019, 7, 3438-3449. | 2.6 | 23 |
| 39 | Antibacterial and Cellular Response Toward a Gasotransmitter-Based Hybrid Wound Dressing. ACS Biomaterials Science and Engineering, 2019, 5, 4002-4012. | 2.6 | 20 |
| 40 | Multifunctional <i>S-</i> Nitroso- <i>N</i> -acetylpenicillamine-Incorporated Medical-Grade Polymer with Selenium Interface for Biomedical Applications. ACS Applied Materials & Interfaces, 2019, 11, 34652-34662. | 4.0 | 45 |
| 41 | Catalyzed Nitric Oxide Release via Cu Nanoparticles Leads to an Increase in Antimicrobial Effects and Hemocompatibility for Short-Term Extracorporeal Circulation. ACS Applied Bio Materials, 2019, 2, 2539-2548. | 2.3 | 47 |
| 42 | Liquid-Infused Nitric-Oxide-Releasing Silicone Foley Urinary Catheters for Prevention of Catheter-Associated Urinary Tract Infections. ACS Biomaterials Science and Engineering, 2019, 5, 2021-2029. | 2.6 | 46 |
| 43 | Zincâ€oxide nanoparticles act catalytically and synergistically with nitric oxide donors to enhance antimicrobial efficacy. Journal of Biomedical Materials Research - Part A, 2019, 107, 1425-1433. | 2.1 | 28 |
| 44 | Antibacterial 3D bone scaffolds for tissue engineering application. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1068-1078. | 1.6 | 18 |
| 45 | Active Release of an Antimicrobial and Antiplatelet Agent from a Nonfouling Surface Modification. ACS Applied Materials & Diterfaces, 2019, 11, 4523-4530. | 4.0 | 33 |
| 46 | Nitric oxideâ€releasing antibacterial albumin plastic for biomedical applications. Journal of Biomedical Materials Research - Part A, 2018, 106, 1535-1542. | 2.1 | 7 |
| 47 | 4D Biofabrication: 3D Cell Patterning Using Shapeâ€Changing Films. Advanced Functional Materials, 2018, 28, 1706248. | 7.8 | 55 |
| 48 | Nitric oxide releasing vascular catheters for eradicating bacterial infection. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2849-2857. | 1.6 | 58 |
| 49 | Biotemplated Synthesis and Characterization of Mesoporous Nitric Oxide-Releasing Diatomaceous Earth Silica Particles. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2291-2301. | 4.0 | 32 |
| 50 | Achieving Long-Term Biocompatible Silicone via Covalently Immobilized <i>S</i> -Nitroso- <i>N</i> -acetylpenicillamine (SNAP) That Exhibits 4 Months of Sustained Nitric Oxide Release. ACS Applied Materials & Samp; Interfaces, 2018, 10, 27316-27325. | 4.0 | 57 |
| 51 | Tunable Nitric Oxide Release from <i>S</i> -Nitroso- <i>N</i> -acetylpenicillamine via Catalytic Copper Nanoparticles for Biomedical Applications. ACS Applied Materials & 1, 15254-15264. | 4.0 | 110 |
| 52 | Enhanced antibacterial efficacy of nitric oxide releasing thermoplastic polyurethanes with antifouling hydrophilic topcoats. Biomaterials Science, 2017, 5, 1246-1255. | 2.6 | 62 |
| 53 | A review of the recent advances in antimicrobial coatings for urinary catheters. Acta Biomaterialia, 2017, 50, 20-40. | 4.1 | 332 |
| 54 | Covalent Grafting of Antifouling Phosphorylcholine-Based Copolymers with Antimicrobial Nitric Oxide Releasing Polymers to Enhance Infection-Resistant Properties of Medical Device Coatings. Langmuir, 2017, 33, 13105-13113. | 1.6 | 64 |

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| 55 | Computational imaging analysis of glycated fibrin gels reveals aggregated and anisotropic structures. Journal of Biomedical Materials Research - Part A, 2017, 105, 2191-2198. | 2.1 | 8 |
| 56 | Liquid-infused nitric oxide-releasing (LINORel) silicone for decreased fouling, thrombosis, and infection of medical devices. Scientific Reports, 2017, 7, 13623. | 1.6 | 93 |
| 57 | Characterization and ⟨i⟩in vivo⟨/i⟩ performance of nitric oxideâ€releasing extracorporeal circuits in a feline model of thrombogenicity. Journal of Biomedical Materials Research - Part A, 2017, 105, 539-546. | 2.1 | 14 |
| 58 | A multi-defense strategy: Enhancing bactericidal activity of a medical grade polymer with a nitric oxide donor and surface-immobilized quaternary ammonium compound. Acta Biomaterialia, 2017, 58, 421-431. | 4.1 | 78 |
| 59 | Investigation of Diffusion Characteristics through Microfluidic Channels for Passive Drug Delivery Applications. Journal of Drug Delivery, 2016, 2016, 1-9. | 2.5 | 10 |
| 60 | Characterization of an S-nitroso-N-acetylpenicillamine–based nitric oxide releasing polymer from a translational perspective. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 769-778. | 1.8 | 53 |
| 61 | Attenuation of thrombosis and bacterial infection using dual function nitric oxide releasing central venous catheters in a 9 day rabbit model. Acta Biomaterialia, 2016, 44, 304-312. | 4.1 | 59 |
| 62 | Improved Hemocompatibility of Multilumen Catheters via Nitric Oxide (NO) Release from <i>S</i> -Nitroso- <i>N</i> -acetylpenicillamine (SNAP) Composite Filled Lumen. ACS Applied Materials & amp; Interfaces, 2016, 8, 29270-29279. | 4.0 | 45 |
| 63 | Surface Grafted Antimicrobial Polymer Networks with High Abrasion Resistance. ACS Biomaterials Science and Engineering, 2016, 2, 1169-1179. | 2.6 | 49 |
| 64 | Antimicrobial and Physicochemical Characterization of Biodegradable, Nitric Oxide-Releasing Nanocellulose–Chitosan Packaging Membranes. Journal of Agricultural and Food Chemistry, 2016, 64, 5260-5266. | 2.4 | 78 |
| 65 | Improved hemocompatibility of silicone rubber extracorporeal tubing via solvent swelling-impregnation of S-nitroso-N-acetylpenicillamine (SNAP) and evaluation in rabbit thrombogenicity model. Acta Biomaterialia, 2016, 37, 111-119. | 4.1 | 64 |
| 66 | The immobilization of a direct thrombin inhibitor to a polyurethane as a nonthrombogenic surface coating for extracorporeal circulation. Journal of Materials Chemistry B, 2016, 4, 2264-2272. | 2.9 | 30 |
| 67 | Recent Advances in Hemocompatible Polymers for Biomedical Applications. , 2015, , 481-511. | | 15 |
| 68 | Reduction in thrombosis and bacterial adhesion with 7 day implantation of S-nitroso-N-acetylpenicillamine (SNAP)-doped Elast-eon E2As catheters in sheep. Journal of Materials Chemistry B, 2015, 3, 1639-1645. | 2.9 | 85 |
| 69 | Optimized polymeric film-based nitric oxide delivery inhibits bacterial growth in a mouse burn wound model. Acta Biomaterialia, 2014, 10, 4136-4142. | 4.1 | 73 |
| 70 | A Nitric Oxide-Releasing Heparin Conjugate for Delivery of a Combined Antiplatelet/Anticoagulant Agent. Molecular Pharmaceutics, 2014, 11, 645-650. | 2.3 | 33 |
| 71 | Hemocompatibility comparison of biomedical grade polymers using rabbit thrombogenicity model for preparing nonthrombogenic nitric oxide releasing surfaces. Journal of Materials Chemistry B, 2014, 2, 1059-1067. | 2.9 | 57 |
| 72 | Development and hemocompatibility testing of nitric oxide releasing polymers using a rabbit model of thrombogenicity. Journal of Biomaterials Applications, 2014, 29, 479-501. | 1.2 | 33 |

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| 73 | The effect of a polyurethane coating incorporating both a thrombin inhibitor and nitric oxide on hemocompatibility in extracorporeal circulation. Biomaterials, 2014, 35, 7271-7285. | 5.7 | 75 |
| 74 | Invitro and in vivo study of sustained nitric oxide release coating using diazeniumdiolate-doped poly(vinyl chloride) matrix with poly(lactide-co-glycolide) additive. Journal of Materials Chemistry B, 2013, 1, 3578. | 2.9 | 58 |
| 75 | The mediation of platelet quiescence by NO-releasing polymers via cGMP-induced serine 239 phosphorylation of vasodilator-stimulated phosphoprotein. Biomaterials, 2013, 34, 8086-8096. | 5.7 | 19 |
| 76 | Long-term nitric oxide release and elevated temperature stability with S-nitroso-N-acetylpenicillamine (SNAP)-doped Elast-eon E2As polymer. Biomaterials, 2013, 34, 6957-6966. | 5.7 | 131 |
| 77 | Thromboresistance Characterization of Extruded Nitric Oxide-Releasing Silicone Catheters. ASAIO Journal, 2012, 58, 238-246. | 0.9 | 21 |
| 78 | The hemocompatibility of a nitric oxide generating polymer that catalyzes S-nitrosothiol decomposition in an extracorporeal circulation model. Biomaterials, 2011, 32, 5957-5969. | 5.7 | 102 |
| 79 | The attenuation of platelet and monocyte activation in a rabbit model of extracorporeal circulation by a nitric oxide releasing polymer. Biomaterials, 2010, 31, 2736-2745. | 5.7 | 119 |
| 80 | Immobilization and Molecular Interactions between Bacteriophage and Lipopolysaccharide Bilayers. Langmuir, 2010, 26, 12095-12103. | 1.6 | 25 |
| 81 | Cross-Linked Bioreducible Layer-by-Layer Films for Increased Cell Adhesion and Transgene Expression. Journal of Physical Chemistry B, 2010, 114, 5283-5291. | 1.2 | 39 |
| 82 | Transfection activity of layer-by-layer plasmid DNA/poly(ethylenimine) films deposited on PLGA microparticles. International Journal of Pharmaceutics, 2009, 365, 44-52. | 2.6 | 29 |
| 83 | Nanoparticle-mediated combination chemotherapy and photodynamic therapy overcomes tumor drug resistance in vitro. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 214-222. | 2.0 | 118 |
| 84 | Recognition of Salmonella typhimurium by immobilized phage P22 monolayers. Surface Science, 2008, 602, 1392-1400. | 0.8 | 78 |
| 85 | Surfactantâ^'Polymer Nanoparticles Enhance the Effectiveness of Anticancer Photodynamic Therapy. Molecular Pharmaceutics, 2008, 5, 795-807. | 2.3 | 96 |
| 86 | Incorporation of Phospholipids Enhances Cellular Uptake and Retention of Surfactant-Polymer Nanoparticles. Journal of Biomedical Nanotechnology, 2007, 3, 291-296. | 0.5 | 6 |
| 87 | Surface Morphological Evolution of Ultrathin P4VP Films and Generation of Ordered Patterns on Graphite. Macromolecular Rapid Communications, 2007, 28, 1619-1623. | 2.0 | 6 |
| 88 | Polymerâ€surfactant nanoparticles for sustained release of waterâ€soluble drugs. Journal of Pharmaceutical Sciences, 2007, 96, 3379-3389. | 1.6 | 91 |
| 89 | Disassembly of layer-by-layer films of plasmid DNA and reducible TAT polypeptide. Biomaterials, 2007, 28, 117-124. | 5.7 | 84 |
| 90 | Phospholipid Nanoparticles: Process Optimization Using Factorial Design and Atomic Force Microscopy. Journal of Biomedical Nanotechnology, 2007, 3, 394-400. | 0.5 | 1 |

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| 91 | Deposition and Aggregation of Aspirin Molecules on a Phospholipid Bilayer Pattern. Langmuir, 2005, 21, 578-585. | 1.6 | 21 |