# Zeshaan N Maan

## List of Publications by Citations



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|---|---|---|---|
| 99 papers | 2,745 citations | 30 h-index | 51 g-index |
| 121 ext. papers | 3,446 ext. citations | 4.1 avg, IF | 4.71 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 99 | Skin fibrosis. Identification and isolation of a dermal lineage with intrinsic fibrogenic potential. *Science*, **2015**, 348, aaa2151 | 33.3 | 362 |
| 98 | Stem Cells in Wound Healing: The Future of Regenerative Medicine? A Mini-Review. *Gerontology*, **2016**, 62, 216-25 | 5.5 | 140 |
| 97 | Mechanotransduction and fibrosis. *Journal of Biomechanics*, **2014**, 47, 1997-2005 | 2.9 | 118 |
| 96 | Transdermal deferoxamine prevents pressure-induced diabetic ulcers. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 94-9 | 11.5 | 113 |
| 95 | Diabetes impairs the angiogenic potential of adipose-derived stem cells by selectively depleting cellular subpopulations. *Stem Cell Research and Therapy*, **2014**, 5, 79 | 8.3 | 112 |
| 94 | Aging disrupts cell subpopulation dynamics and diminishes the function of mesenchymal stem cells. *Scientific Reports*, **2014**, 4, 7144 | 4.9 | 108 |
| 93 | Tissue engineering and regenerative repair in wound healing. *Annals of Biomedical Engineering*, **2014**, 42, 1494-507 | 4.7 | 102 |
| 92 | Scarless wound healing: chasing the holy grail. *Plastic and Reconstructive Surgery*, **2015**, 135, 907-917 | 2.7 | 97 |
| 91 | Wnt Pathway in Bone Repair and Regeneration - What Do We Know So Far. *Frontiers in Cell and Developmental Biology*, **2018**, 6, 170 | 5.7 | 87 |
| 90 | Studies in Fat Grafting: Part V. Cell-Assisted Lipotransfer to Enhance Fat Graft Retention Is Dose Dependent. *Plastic and Reconstructive Surgery*, **2015**, 136, 67-75 | 2.7 | 78 |
| 89 | Challenges and Opportunities in Drug Delivery for Wound Healing. *Advances in Wound Care*, **2016**, 5, 79-88 | 4.8 | 64 |
| 88 | Wound healing: an update. *Regenerative Medicine*, **2014**, 9, 817-30 | 2.5 | 63 |
| 87 | Cell recruitment by amnion chorion grafts promotes neovascularization. *Journal of Surgical Research*, **2015**, 193, 953-962 | 2.5 | 55 |
| 86 | Diabetes irreversibly depletes bone marrow-derived mesenchymal progenitor cell subpopulations. *Diabetes*, **2014**, 63, 3047-56 | 0.9 | 55 |
| 85 | Pharmacological rescue of diabetic skeletal stem cell niches. *Science Translational Medicine*, **2017**, 9, | 17.5 | 53 |
| 84 | What Makes a Plastic Surgery Residency Program Attractive? An Applicant\'s Perspective. *Plastic and Reconstructive Surgery*, **2015**, 136, 189-196 | 2.7 | 49 |
| 83 | Biological therapies for the treatment of cutaneous wounds: phase III and launched therapies. *Expert Opinion on Biological Therapy*, **2013**, 13, 1523-41 | 5.4 | 44 |

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|---|---|---|---|
| 82 | Wnt signaling induces epithelial differentiation during cutaneous wound healing. *Organogenesis*, **2015**, 11, 95-104 | 1.7 | 43 |
| 81 | Adipose-Derived Stem Cell-Seeded Hydrogels Increase Endogenous Progenitor Cell Recruitment and Neovascularization in Wounds. *Tissue Engineering - Part A*, **2016**, 22, 295-305 | 3.9 | 43 |
| 80 | Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair. *JCI Insight*, **2017**, 2, | 9.9 | 39 |
| 79 | Fibroblast-Specific Deletion of Hypoxia Inducible Factor-1 Critically Impairs Murine Cutaneous Neovascularization and Wound Healing. *Plastic and Reconstructive Surgery*, **2015**, 136, 1004-1013 | 2.7 | 37 |
| 78 | Comparison of the Hydroxylase Inhibitor Dimethyloxalylglycine and the Iron Chelator Deferoxamine in Diabetic and Aged Wound Healing. *Plastic and Reconstructive Surgery*, **2017**, 139, 695e-706e | 2.7 | 36 |
| 77 | Microfluidic single-cell transcriptional analysis rationally identifies novel surface marker profiles to enhance cell-based therapies. *Nature Communications*, **2016**, 7, 11945 | 17.4 | 36 |
| 76 | The use of robotics in otolaryngology-head and neck surgery: a systematic review. *American Journal of Otolaryngology - Head and Neck Medicine and Surgery*, **2012**, 33, 137-46 | 2.8 | 34 |
| 75 | Continuous hemoadsorption with a cytokine adsorber during sepsis - a review of the literature. *International Journal of Artificial Organs*, **2017**, 40, 205-211 | 1.9 | 32 |
| 74 | Molecular Mechanisms of Hair Growth and Regeneration: Current Understanding and Novel Paradigms. *Dermatology*, **2020**, 236, 271-280 | 4.4 | 30 |
| 73 | Evaluating the Effect of Cell Culture on Gene Expression in Primary Tissue Samples Using Microfluidic-Based Single Cell Transcriptional Analysis. *Microarrays (Basel, Switzerland)*, **2015**, 4, 540-50 | | 30 |
| 72 | High-Throughput Screening of Surface Marker Expression on Undifferentiated and Differentiated Human Adipose-Derived Stromal Cells. *Tissue Engineering - Part A*, **2015**, 21, 2281-91 | 3.9 | 30 |
| 71 | Noncontact, low-frequency ultrasound therapy enhances neovascularization and wound healing in diabetic mice. *Plastic and Reconstructive Surgery*, **2014**, 134, 402e-411e | 2.7 | 30 |
| 70 | Exercise induces stromal cell-derived factor-1–mediated release of endothelial progenitor cells with increased vasculogenic function. *Plastic and Reconstructive Surgery*, **2015**, 135, 340e-350e | 2.7 | 29 |
| 69 | Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells. *Stem Cells Translational Medicine*, **2016**, 5, 248-57 | 6.9 | 29 |
| 68 | Extracellular superoxide dismutase deficiency impairs wound healing in advanced age by reducing neovascularization and fibroblast function. *Experimental Dermatology*, **2016**, 25, 206-11 | 4 | 25 |
| 67 | Age-associated intracellular superoxide dismutase deficiency potentiates dermal fibroblast dysfunction during wound healing. *Experimental Dermatology*, **2019**, 28, 485-492 | 4 | 25 |
| 66 | Stem Cell-Based Therapeutics to Improve Wound Healing. *Plastic Surgery International*, **2015**, 2015, 383581 | | 24 |
| 65 | Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells. *Journal of Translational Medicine*, **2016**, 14, 126 | 8.5 | 23 |

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| 64 | Epidermal or dermal specific knockout of PHD-2 enhances wound healing and minimizes ischemic injury. *PLoS ONE*, **2014**, 9, e93373 | 3.7 | 22 |
| 63 | Live fibroblast harvest reveals surface marker shift in vitro. *Tissue Engineering - Part C: Methods*, **2015**, 21, 314-21 | 2.9 | 21 |
| 62 | Gene expression in fetal murine keratinocytes and fibroblasts. *Journal of Surgical Research*, **2014**, 190, 344-57 | 2.5 | 20 |
| 61 | Ultrasound-assisted liposuction provides a source for functional adipose-derived stromal cells. *Cytotherapy*, **2017**, 19, 1491-1500 | 4.8 | 20 |
| 60 | Abstract 10: Global and Endothelial Cell Specific Deletion of SDF-1 Results in Delayed Wound Healing. *Plastic and Reconstructive Surgery*, **2014**, 133, 20 | 2.7 | 18 |
| 59 | The Role of Focal Adhesion Kinase in Keratinocyte Fibrogenic Gene Expression. *International Journal of Molecular Sciences*, **2017**, 18, | 6.3 | 17 |
| 58 | Role of Wnt signaling during inflammation and sepsis: A review of the literature. *International Journal of Artificial Organs*, **2018**, 41, 247-253 | 1.9 | 16 |
| 57 | Medical leech therapy in plastic reconstructive surgery. *Wiener Medizinische Wochenschrift*, **2015**, 165, 419-25 | 2.9 | 15 |
| 56 | Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis. *Cell Reports*, **2020**, 33, 108356 | 10.6 | 15 |
| 55 | Models for the Study of Fibrosis. *Advances in Wound Care*, **2019**, 8, 645-654 | 4.8 | 14 |
| 54 | Short Hairpin RNA Silencing of PHD-2 Improves Neovascularization and Functional Outcomes in Diabetic Wounds and Ischemic Limbs. *PLoS ONE*, **2016**, 11, e0150927 | 3.7 | 14 |
| 53 | Multiple Subsets of Brain Tumor Initiating Cells Coexist in Glioblastoma. *Stem Cells*, **2016**, 34, 1702-7 | 5.8 | 14 |
| 52 | Trends and inpatient outcomes for palliative care services in major burn patients: A 10-year analysis of the nationwide inpatient sample. *Burns*, **2018**, 44, 1903-1909 | 2.3 | 13 |
| 51 | Injuries to appendage extremities and digit tips: A clinical and cellular update. *Developmental Dynamics*, **2015**, 244, 641-50 | 2.9 | 11 |
| 50 | Murine Dermal Fibroblast Isolation by FACS. *Journal of Visualized Experiments*, **2016**, | 1.6 | 11 |
| 49 | Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds. *Journal of Controlled Release*, **2019**, 308, 232-239 | 11.7 | 11 |
| 48 | Burns ITU admissions: length of stay in specific levels of care for adult and paediatric patients. *Burns*, **2014**, 40, 1458-62 | 2.3 | 11 |
| 47 | Adipose-Derived Stromal Cells Seeded in Pullulan-Collagen Hydrogels Improve Healing in Murine Burns. *Tissue Engineering - Part A*, **2021**, 27, 844-856 | 3.9 | 11 |

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| 46 | High-Resolution Microfluidic Single-Cell Transcriptional Profiling Reveals Clinically Relevant Subtypes among Human Stem Cell Populations Commonly Utilized in Cell-Based Therapies. *Frontiers in Neurology*, **2016**, 7, 41 | 4.1 | 11 |
| 45 | Small molecule inhibition of dipeptidyl peptidase-4 enhances bone marrow progenitor cell function and angiogenesis in diabetic wounds. *Translational Research*, **2019**, 205, 51-63 | 11 | 11 |
| 44 | A mouse fetal skin model of scarless wound repair. *Journal of Visualized Experiments*, **2015**, 52297 | 1.6 | 10 |
| 43 | Disrupting biological sensors of force promotes tissue regeneration in large organisms. *Nature Communications*, **2021**, 12, 5256 | 17.4 | 9 |
| 42 | An Improved Humanized Mouse Model for Excisional Wound Healing Using Double Transgenic Mice. *Advances in Wound Care*, **2018**, 7, 11-17 | 4.8 | 8 |
| 41 | Surveillance of Stem Cell Fate and Function: A System for Assessing Cell Survival and Collagen Expression In Situ. *Tissue Engineering - Part A*, **2016**, 22, 31-40 | 3.9 | 8 |
| 40 | Cryopreserved human skin allografts promote angiogenesis and dermal regeneration in a murine model. *International Wound Journal*, **2020**, 17, 925-936 | 2.6 | 7 |
| 39 | Ultrasonography of simple intratesticular cysts: a 13 year experience in a single centre. *Diagnostic Pathology*, **2011**, 6, 24 | 3 | 6 |
| 38 | Sutureless Microsurgical Anastomosis Using an Optimized Thermoreversible Intravascular Poloxamer Stent. *Plastic and Reconstructive Surgery*, **2016**, 137, 546-556 | 2.7 | 6 |
| 37 | Digit Tip Injuries: Current Treatment and Future Regenerative Paradigms. *Stem Cells International*, **2019**, 2019, 9619080 | 5 | 5 |
| 36 | Homelessness and Inpatient Burn Outcomes in the United States. *Journal of Burn Care and Research* , **2019**, 40, 633-638 | 0.8 | 5 |
| 35 | The association of burn patient volume with patient safety indicators and mortality in the US. *Burns* , **2020**, 46, 44-51 | 2.3 | 5 |
| 34 | Stevens-Johnson syndrome and toxic epidermal necrolysis: a 10-year experience in a burns unit. *Journal of Wound Care*, **2021**, 30, 492-496 | 2.2 | 5 |
| 33 | Delivery of Macrophages in a Biomimetic Scaffold Accelerates Diabetic Wound Healing Through Enhanced Angiogenesis. *Journal of the American College of Surgeons*, **2015**, 221, S113-S114 | 4.4 | 4 |
| 32 | Macrophage Subpopulation Dynamics Shift following Intravenous Infusion of Mesenchymal Stromal Cells. *Molecular Therapy*, **2020**, 28, 2007-2022 | 11.7 | 4 |
| 31 | Burns: modified metabolism and the nuances of nutrition therapy. *Journal of Wound Care*, **2020**, 29, 184-191 | 2.2 | 4 |
| 30 | Increasing ambulatory treatment of pediatric minor burns-The emerging paradigm for burn care in children. *Burns*, **2019**, 45, 165-172 | 2.3 | 4 |
| 29 | Fibrin Glue Enhances Adipose-Derived Stromal Cell Cytokine Secretion and Survival Conferring Accelerated Diabetic Wound Healing. *Stem Cells International*, **2018**, 2018, 1353085 | 5 | 4 |

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| 28 | Single Stage Repair of #30 Facial Cleft with Bone Morphogenic Protein. *Plastic and Reconstructive Surgery - Global Open*, **2018**, 6, e1937 | 1.2 | 4 |
| 27 | Reverse Radial Forearm Flap. *Plastic and Reconstructive Surgery - Global Open*, **2017**, 5, e1287 | 1.2 | 3 |
| 26 | Plastic Surgery Research: A Means to an End?. *Plastic and Reconstructive Surgery*, **2020**, 145, 890e-892e | 2.7 | 2 |
| 25 | Pathway Analysis of Gene Expression in Murine Fetal and Adult Wounds. *Advances in Wound Care*, **2018**, 7, 262-275 | 4.8 | 2 |
| 24 | Skeletal Stem Cell Niche Aberrancies Underlie Impaired Fracture Healing in a Mouse Model of Type 2 Diabetes. *Plastic and Reconstructive Surgery*, **2015**, 136, 73 | 2.7 | 2 |
| 23 | Xenogeneic skin transplantation promotes angiogenesis and tissue regeneration through activated Trem2 macrophages. *Science Advances*, **2021**, 7, eabi4528 | 14.3 | 2 |
| 22 | Abstract 8: SDF-1 Regulates Adipose Niche Homeostasis and Adipose Derived Stromal Cell Function. *Plastic and Reconstructive Surgery*, **2014**, 133, 15-16 | 2.7 | 2 |
| 21 | Endothelial CXCL12 regulates neovascularization during tissue repair and tumor progression | | 2 |
| 20 | Wounds Inhibit Tumor Growth In Vivo. *Annals of Surgery*, **2021**, 273, 173-180 | 7.8 | 2 |
| 19 | Stevens-Johnson syndrome and toxic epidermal necrolysis: a systematic review and meta-analysis. *Journal of Wound Care*, **2021**, 30, 1012-1019 | 2.2 | 2 |
| 18 | Deferoxamine enhances the regenerative potential of diabetic Adipose Derived Stem Cells. *Journal of Plastic, Reconstructive and Aesthetic Surgery*, **2020**, 73, 1738-1746 | 1.7 | 1 |
| 17 | Gigantic LCFA-SCIP Mosaic Flap for Upper Extremity Reconstruction. *Plastic and Reconstructive Surgery - Global Open*, **2015**, 3, e506 | 1.2 | 1 |
| 16 | Understanding regulatory pathways of neovascularization in diabetes. *Expert Review of Endocrinology and Metabolism*, **2014**, 9, 487-501 | 4.1 | 1 |
| 15 | Wnt Signaling During Cutaneous Wound Healing **2019**, 147-155 | | 1 |
| 14 | Cognitive Independence in Plastic Surgery Training: The Value of Professional Development. *Plastic and Reconstructive Surgery*, **2019**, 144, 153e-154e | 2.7 | 1 |
| 13 | Innovation in Plastic Surgery: A Call for Re-Emergence of the Surgeon-Scientist. *Plastic and Reconstructive Surgery*, **2020**, 145, 892e | 2.7 | 1 |
| 12 | The Plane of Mesh Placement Does Not Impact Abdominal Donor Site Complications in Microsurgical Breast Reconstruction. *Annals of Plastic Surgery*, **2021**, 87, 542-546 | 1.7 | 0 |
| 11 | Optimising management of self-inflicted burns: a retrospective review. *Journal of Wound Care*, **2019**, 28, 317-322 | 2.2 | |

# List of Publications

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| 10 | Abstract 135: improved engraftment of autologous skin grafts in diabetic mice with adipose-derived stem cells. *Plastic and Reconstructive Surgery*, **2014**, 133, 151 | 2.7 |
| 9 | What Makes a Plastic Surgery Residency Attractive. *Plastic and Reconstructive Surgery*, **2014**, 134, 63-64 | 2.7 |
| 8 | Adipose Derived Stromal Cells Obtained by Ultrasound Assisted Liposuction Versus Suction Assisted Liposuction. *Plastic and Reconstructive Surgery*, **2014**, 134, 56-57 | 2.7 |
| 7 | Wnt ligand expression in malignant melanoma: new insights. *European Journal of Plastic Surgery*,1 | 0.6 |
| 6 | Wnt signaling and Hedgehog expression in basal cell carcinoma. *European Journal of Plastic Surgery*,1 | 0.6 |
| 5 | Invited Discussion on: Ideal Reference Lines for Assessment of Facial Asymmetry in Rhinoplasty Patients. *Aesthetic Plastic Surgery*, **2021**, 1 | 2 |
| 4 | Bone Repair and Regeneration Are Regulated by the Wnt Signaling Pathway **2019**, 231-245 | |
| 3 | Spotlight in Plastic Surgery. *Plastic and Reconstructive Surgery*, **2019**, 143, 1278-1281 | 2.7 |
| 2 | A single-center blinded randomized clinical trial to evaluate the anti-aging effects of a novel HSF based skin care formulation. *Journal of Cosmetic Dermatology*, **2020**, 19, 2936-2945 | 2.5 |
| 1 | Invited Discussion on: Double Layer Lateral Crural Perichondrial Flap for Coverage and Stabilization of Tip Graft.. *Aesthetic Plastic Surgery*, **2022**, 46, 871 | 2 |