

# Andrew J Feola

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,778  
citations

331259  
21  
h-index

329751  
37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1497  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Evidence for Menopause as a Sex-Specific Risk Factor for Glaucoma. Cellular and Molecular Neurobiology, 2023, 43, 79-97.  | 1.7 | 8         |
| 2  | Evaluation of Spatially Targeted Scleral Stiffening on Neuroprotection in a Rat Model of Glaucoma. Translational Vision Science and Technology, 2022, 11, 7.  | 1.1 | 3         |
| 3  | A Potential Role of Acute Choroidal Expansion in Nonarteritic Anterior Ischemic Optic Neuropathy. , 2022, 63, 23.   |     | 2         |
| 4  | Using retinal function to define ischemic exclusion criteria for animal models of glaucoma. Experimental Eye Research, 2021, 202, 108354.   | 1.2 | 9         |
| 5  | Ovariectomy worsens visual function after mild optic nerve crush in rodents. Experimental Eye Research, 2021, 202, 108333.  | 1.2 | 4         |
| 6  | Initiation of L-DOPA Treatment After Detection of Diabetes-Induced Retinal Dysfunction Reverses Retinopathy and Provides Neuroprotection in Rats. Translational Vision Science and Technology, 2021, 10, 8. | 1.1 | 10        |
| 7  | Dependence of visual and cognitive outcomes on animal holder configuration in a rodent model of blast overpressure exposure. Vision Research, 2021, 188, 162-173.   | 0.7 | 5         |
| 8  | Assessment of Visual and Retinal Function Following In Vivo Genipin-Induced Scleral Crosslinking. Translational Vision Science and Technology, 2020, 9, 8.  | 1.1 | 13        |
| 9  | Biomechanical properties of the rat sclera obtained with inverse finite element modeling. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2195-2212.   | 1.4 | 17        |
| 10 | Age and Menopause Effects on Ocular Compliance and Aqueous Outflow. , 2020, 61, 16.   |     | 17        |
| 11 | AxoNet: A deep learning-based tool to count retinal ganglion cell axons. Scientific Reports, 2020, 10, 8034.  | 1.6 | 25        |
| 12 | Novel Detection and Restorative Levodopa Treatment for Preclinical Diabetic Retinopathy. Diabetes, 2020, 69, 1518-1527.   | 0.3 | 27        |
| 13 | Factors affecting optic nerve head biomechanics in a rat model of glaucoma. Journal of the Royal Society Interface, 2020, 17, 20190695.   | 1.5 | 12        |
| 14 | Behavioral Assessment of Visual Function via Optomotor Response and Cognitive Function via Y-Maze in Diabetic Rats. Journal of Visualized Experiments, 2020, , .  | 0.2 | 8         |
| 15 | In vivo Structural Assessments of Ocular Disease in Rodent Models using Optical Coherence Tomography. Journal of Visualized Experiments, 2020, , .  | 0.2 | 3         |
| 16 | Measurement of Ocular Compliance Using iPerfusion. Frontiers in Bioengineering and Biotechnology, 2019, 7, 276.   | 2.0 | 18        |
| 17 | Menopause exacerbates visual dysfunction in experimental glaucoma. Experimental Eye Research, 2019, 186, 107706.  | 1.2 | 19        |
| 18 | Retinal Deficits Precede Cognitive and Motor Deficits in a Rat Model of Type II Diabetes. , 2019, 60, 123.  |     | 26        |

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|----|---|-----|-----------|
| 19 | First delivery and ovariectomy affect biomechanical and structural properties of the vagina in the ovine model. International Urogynecology Journal, 2019, 30, 455-464.                     | 0.7 | 22        |
| 20 | Long-Term Functional and Structural Consequences of Primary Blast Overpressure to the Eye. Journal of Neurotrauma, 2018, 35, 2104-2116.   | 1.7 | 30        |
| 21 | Biomechanical Properties of the Pelvic Floor and its Relation to Pelvic Floor Disorders. European Urology Supplements, 2018, 17, 80-90.   | 0.1 | 18        |
| 22 | The Impact of Choroidal Swelling on Optic Nerve Head Deformation. , 2018, 59, 4172.   |     | 37        |
| 23 | Comparative Anatomy of the Ovine and Female Pelvis. Gynecologic and Obstetric Investigation, 2017, 82, 582-591.   | 0.7 | 27        |
| 24 | The impact of ocular hemodynamics and intracranial pressure on intraocular pressure during acute gravitational changes. Journal of Applied Physiology, 2017, 123, 352-363.                  | 1.2 | 25        |
| 25 | In vivo documentation of shape and position changes of MRI-visible mesh placed in rectovaginal septum. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 379-389.       | 1.5 | 9         |
| 26 | Transvaginal Mesh Insertion in the Ovine Model. Journal of Visualized Experiments, 2017, , .  | 0.2 | 8         |
| 27 | Characterization of the mechanical behavior of the optic nerve sheath and its role in spaceflight-induced ophthalmic changes. Biomechanics and Modeling in Mechanobiology, 2017, 16, 33-43. | 1.4 | 23        |
| 28 | Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure. , 2017, 58, 2070.  |     | 57        |
| 29 | Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa. , 2016, 57, 2666.  |     | 68        |
| 30 | Finite Element Modeling of Factors Influencing Optic Nerve Head Deformation Due to Intracranial Pressure. , 2016, 57, 1901.   |     | 73        |
| 31 | The impact of prolapse mesh on vaginal smooth muscle structure and function. BJOG: an International Journal of Obstetrics and Gynaecology, 2016, 123, 1076-1085.                            | 1.1 | 36        |
| 32 | Immediate postoperative changes in synthetic meshes “ In vivo measurements. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 228-235.                                  | 1.5 | 11        |
| 33 | High-frequency micro-ultrasound: A novel method to assess external urethral sphincter function in rats following simulated birth injury. Neurourology and Urodynamics, 2015, 34, 264-269.   | 0.8 | 8         |
| 34 | Cross-linked xenogenic collagen implantation in the sheep model for vaginal surgery. Gynecological Surgery, 2015, 12, 113-122.  | 0.9 | 17        |
| 35 | Prosthetic Meshes for Repair of Hernia and Pelvic Organ Prolapse: Comparison of Biomechanical Properties. Materials, 2015, 8, 2794-2808.  | 1.3 | 21        |
| 36 | Host reaction to vaginally inserted collagen containing polypropylene implants in sheep. American Journal of Obstetrics and Gynecology, 2015, 212, 474.e1-474.e8.                           | 0.7 | 38        |

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|----|--|-----|-----------|
| 37 | Three-dimensional analysis of implanted magnetic-resonance-visible meshes. International Urogynecology Journal, 2015, 26, 1459-1465.   | 0.7 | 16        |
| 38 | Mesh contraction: in vivo documentation of changes in apparent surface area utilizing meshes visible on magnetic resonance imaging in the rabbit abdominal wall model. International Urogynecology Journal, 2014, 25, 737-743. | 0.7 | 20        |
| 39 | Varying degrees of nonlinear mechanical behavior arising from geometric differences of urogynecological meshes. Journal of Biomechanics, 2014, 47, 2584-2589.  | 0.9 | 15        |
| 40 | Mechanical biocompatibility of prosthetic meshes: A comprehensive protocol for mechanical characterization. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 42-58.                                       | 1.5 | 37        |
| 41 | Biomechanics of the rat vagina during pregnancy and postpartum: a 3-dimensional ultrasound approach. International Urogynecology Journal, 2014, 25, 915-920.   | 0.7 | 6         |
| 42 | Changes in the rheological behavior of the vagina in women with pelvic organ prolapse. International Urogynecology Journal, 2013, 24, 1221-1227.   | 0.7 | 28        |
| 43 | Characterizing the ex vivo textile and structural properties of synthetic prolapse mesh products. International Urogynecology Journal, 2013, 24, 559-564.  | 0.7 | 52        |
| 44 | 27 ULTRASOUND, SPOT TEST, BLADDER LEAKAGE CAPACITY, AND TIME TO LEAKAGE TO DETERMINE THE FUNCTIONAL ALTERATION IN DIFFERENT RAT MODELS OF STRESS URINARY INCONTINENCE. Journal of Urology, 2013, 189, .                        | 0.2 | 0         |
| 45 | Deterioration in biomechanical properties of the vagina following implantation of a high-stiffness prolapse mesh. BJOG: an International Journal of Obstetrics and Gynaecology, 2013, 120, 224-232.                            | 1.1 | 115       |
| 46 | Graft-related complications and biaxial tensiometry following experimental vaginal implantation of flat mesh of variable dimensions. BJOG: an International Journal of Obstetrics and Gynaecology, 2013, 120, 244-250.         | 1.1 | 57        |
| 47 | Vaginal degeneration following implantation of synthetic mesh with increased stiffness. BJOG: an International Journal of Obstetrics and Gynaecology, 2013, 120, 233-243.  | 1.1 | 124       |
| 48 | The need for preclinical research on pelvic floor reconstruction. BJOG: an International Journal of Obstetrics and Gynaecology, 2013, 120, 141-143.  | 1.1 | 15        |
| 49 | Regional Differences in Rat Vaginal Smooth Muscle Contractility and Morphology. Reproductive Sciences, 2013, 20, 382-390.  | 1.1 | 30        |
| 50 | THE EFFECT OF PREGNANCY AND POSTPARTUM RECOVERY ON THE VISCOELASTIC BEHAVIOR OF THE RAT CERVIX. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250009.   | 0.3 | 15        |
| 51 | Uniaxial biomechanical properties of seven different vaginally implanted meshes for pelvic organ prolapse. International Urogynecology Journal, 2012, 23, 613-620.   | 0.7 | 71        |
| 52 | Impact of Pregnancy and Vaginal Delivery on the Passive and Active Mechanics of the Rat Vagina. Annals of Biomedical Engineering, 2011, 39, 549-558.   | 1.3 | 55        |
| 53 | Pregnancy- and delivery-induced biomechanical changes in rat vagina persist postpartum. International Urogynecology Journal, 2010, 21, 1169-1174.  | 0.7 | 39        |
| 54 | Collagen scaffold: a treatment for simulated maternal birth injury in the rat model. American Journal of Obstetrics and Gynecology, 2010, 202, 589.e1-589.e8.  | 0.7 | 23        |

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|----|---|-----|-----------|
| 55 | Parity negatively impacts vaginal mechanical properties and collagen structure in rhesus macaques. American Journal of Obstetrics and Gynecology, 2010, 203, 595.e1-595.e8. | 0.7 | 40        |
| 56 | Tensile properties of commonly used prolapse meshes. International Urogynecology Journal, 2009, 20, 847-853.  | 0.7 | 62        |
| 57 | Tissue mechanics, animal models, and pelvic organ prolapse: A review. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 144, S146-S158.            | 0.5 | 184       |
| 58 | Contribution of biomechanics to management of ligament and tendon injuries. MCB Molecular and Cellular Biomechanics, 2008, 5, 49-68.  | 0.3 | 20        |