

Steven D Abramowitch

List of Publications by Year in descending order

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43
papers

1,046
citations

516710

16
h-index

414414

32
g-index

43
all docs

43
docs citations

43
times ranked

986
citing authors

#	ARTICLE	IF	CITATIONS
1	Urethral support in female urinary continence part 2: a computational, biomechanical analysis of Valsalva. <i>International Urogynecology Journal</i> , 2022, 33, 551-561.	1.4	7
2	Urethral support in female urinary continence part 1: dynamic measurements of urethral shape and motion. <i>International Urogynecology Journal</i> , 2022, 33, 541-550.	1.4	6
3	Smooth Muscle Organization and Nerves in the Rat Vagina: A First Look Using Tissue Clearing and Immunolabeling. <i>Annals of Biomedical Engineering</i> , 2022, 50, 440-451.	2.5	5
4	3D quantitative analysis of normal clitoral anatomy in nulliparous women by MRI. <i>International Urogynecology Journal</i> , 2022, 33, 1649-1657.	1.4	2
5	Comparison of 2 single incision slings on the vagina in an ovine model. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 78.e1-78.e7.	1.3	2
6	Methods for the defining mechanisms of anterior vaginal wall descent (DEMAND) study. <i>International Urogynecology Journal</i> , 2021, 32, 809-818.	1.4	4
7	Statistical shape modeling of the pelvic floor to evaluate women with obstructed defecation symptoms. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 122-130.	1.6	2
8	Novel Application of Photogrammetry to Quantify Fascicle Orientations of Female Cadaveric Pelvic Floor Muscles. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1888-1899.	2.5	2
9	Defining mechanisms of recurrence following apical prolapse repair based on imaging criteria. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 225, 506.e1-506.e28.	1.3	9
10	Strains induced in the vagina by smooth muscle contractions. <i>Acta Biomaterialia</i> , 2021, 129, 178-187.	8.3	11
11	Obstructed Defecation Symptom Severity and Degree of Rectal Hypermobility and Folding Detected by Dynamic Ultrasound. <i>Ultrasound Quarterly</i> , 2021, 37, 229-236.	0.8	3
12	The establishment of a 3D anatomical coordinate system for defining vaginal axis and spatial position. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106175.	4.7	3
13	Descent and hypermobility of the rectum in women with obstructed defecation symptoms. <i>International Urogynecology Journal</i> , 2020, 31, 337-349.	1.4	10
14	Motion of the vaginal apex during strain and defecation. <i>International Urogynecology Journal</i> , 2020, 31, 391-400.	1.4	2
15	The role of conventional pelvic floor reconstructive surgeries in obstructed defecation symptoms change: CARE and OPTIMAL trials sub-analysis of 2-year follow-up data. <i>International Urogynecology Journal</i> , 2020, 31, 1325-1334.	1.4	4
16	T regulatory cells and TGF- β 21: Predictors of the host response in mesh complications. <i>Acta Biomaterialia</i> , 2020, 115, 127-135.	8.3	7
17	Transvaginal sacrospinous ligament suture rectopexy for obstructed defecation symptoms: 1-year outcomes. <i>International Urogynecology Journal</i> , 2020, 32, 3045-3052.	1.4	3
18	Pelvic floor shape variations during pregnancy and after vaginal delivery. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 194, 105516.	4.7	21

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19	Impact of polypropylene prolapse mesh on vaginal smooth muscle in rhesus macaque. American Journal of Obstetrics and Gynecology, 2019, 221, 330.e1-330.e9.	1.3	14
20	Mesh induced fibrosis: The protective role of T regulatory cells. Acta Biomaterialia, 2019, 96, 203-210.	8.3	20
21	Novel simulations to determine the impact of superficial perineal structures on vaginal delivery. Interface Focus, 2019, 9, 20190011.	3.0	9
22	Inflation and rupture of vaginal tissue. Interface Focus, 2019, 9, 20190029.	3.0	13
23	Swine Vagina Under Planar Biaxial Loads: An Investigation of Large Deformations and Tears. Journal of Biomechanical Engineering, 2019, 141, .	1.3	11
24	Deformation of Transvaginal Mesh in Response to Multiaxial Loading. Journal of Biomechanical Engineering, 2019, 141, .	1.3	8
25	Preventing Mesh Pore Collapse by Designing Mesh Pores With Auxetic Geometries: A Comprehensive Evaluation Via Computational Modeling. Journal of Biomechanical Engineering, 2018, 140, .	1.3	15
26	Towards rebuilding vaginal support utilizing an extracellular matrix bioscaffold. Acta Biomaterialia, 2017, 57, 324-333.	8.3	20
27	Discrete quasi-linear viscoelastic damping analysis of connective tissues, and the biomechanics of stretching. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 69, 193-202.	3.1	23
28	Extracellular matrix regenerative graft attenuates the negative impact of polypropylene prolapse mesh on vagina in rhesus macaque. American Journal of Obstetrics and Gynecology, 2017, 216, 153.e1-153.e9.	1.3	30
29	Textile properties of synthetic prolapse mesh in response to uniaxial loading. American Journal of Obstetrics and Gynecology, 2016, 215, 326.e1-326.e9.	1.3	37
30	Impact of parity on ewe vaginal mechanical properties relative to the nonhuman primate and rodent. International Urogynecology Journal, 2016, 27, 1255-1263.	1.4	21
31	Host response to synthetic mesh in women with mesh complications. American Journal of Obstetrics and Gynecology, 2016, 215, 206.e1-206.e8.	1.3	99
32	A discrete spectral analysis for determining quasi-linear viscoelastic properties of biological materials. Journal of the Royal Society Interface, 2015, 12, 20150707.	3.4	29
33	Reproductive biomechanics: Innovations and challenges. Journal of Biomechanics, 2015, 48, 1509-1510.	2.1	0
34	Impact of prolapse meshes on the metabolism of vaginal extracellular matrix in rhesus macaque. American Journal of Obstetrics and Gynecology, 2015, 212, 174.e1-174.e7.	1.3	53
35	The impact of boundary conditions on surface curvature of polypropylene mesh in response to uniaxial loading. Journal of Biomechanics, 2015, 48, 1566-1574.	2.1	24
36	Finite Element Modeling in Female Pelvic Floor Medicine: a Literature Review. Current Obstetrics and Gynecology Reports, 2015, 4, 125-131.	0.8	11

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37	Characterization of the host inflammatory response following implantation of prolapse mesh in rhesus macaque. American Journal of Obstetrics and Gynecology, 2015, 213, 668.e1-668.e10.	1.3	65
38	Varying degrees of nonlinear mechanical behavior arising from geometric differences of urogynecological meshes. Journal of Biomechanics, 2014, 47, 2584-2589.	2.1	15
39	A comparison of the quasi-static mechanical and non-linear viscoelastic properties of the human semitendinosus and gracilis tendons. Clinical Biomechanics, 2010, 25, 325-331.	1.2	48
40	Tissue mechanics, animal models, and pelvic organ prolapse: A review. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 144, S146-S158.	1.1	184
41	The Assumption of a Negligible Preload on the Determination of Viscoelastic Properties Based on the Quasi-linear Viscoelastic (QLV) Theory. , 2007, , .		0
42	An Improved Method to Analyze the Stress Relaxation of Ligaments Following a Finite Ramp Time Based on the Quasi-Linear Viscoelastic Theory. Journal of Biomechanical Engineering, 2004, 126, 92-97.	1.3	135
43	An Evaluation of the Quasi-Linear Viscoelastic Properties of the Healing Medial Collateral Ligament in a Goat Model. Annals of Biomedical Engineering, 2004, 32, 329-335.	2.5	59