

# Satish Shenoy

## List of Publications by Year in descending order

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94  
papers

1,064  
citations

471509

17  
h-index

526287

27  
g-index

102  
all docs

102  
docs citations

102  
times ranked

669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nanoparticles additives on the performance of an externally adjustable fluid film bearing. Tribology International, 2012, 45, 38-42.	5.9	83
2	Potential of Natural Fibers in Composites for Ballistic Applications – A Review. Journal of Natural Fibers, 2022, 19, 1648-1658.	3.1	76
3	Review on carbon fiber reinforced polymer (CFRP) and their mechanical performance. Materials Today: Proceedings, 2019, 19, 658-662.	1.8	68
4	Static structural analysis of different stem designs used in total hip arthroplasty using finite element method. Heliyon, 2019, 5, e01767.	3.2	43
5	Theoretical investigations on the performance of an externally adjustable fluid-film bearing including misalignment and turbulence effects. Tribology International, 2009, 42, 1088-1100.	5.9	35
6	Static characteristics of a fluid film bearing with TiO <sub>2</sub> based nanolubricant using the modified Krieger–Dougherty viscosity model and couple stress model. Tribology International, 2014, 75, 69-79.	5.9	35
7	Steady state characteristics of misaligned multiple axial groove water-lubricated journal bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2015, 229, 712-722.	1.8	34
8	Static characteristics of misaligned multiple axial groove water-lubricated bearing in the turbulent regime. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 385-398.	1.8	30
9	Development of Short Areca Fiber Reinforced Biodegradable Composite Material. Procedia Engineering, 2013, 64, 966-972.	1.2	25
10	Preparation of Unidirectional Grewia Serrulata Fiber-Reinforced Polyester Composites and Evaluation of Tensile and Flexural Properties. Journal of Natural Fibers, 2016, 13, 547-554.	3.1	24
11	Finite Element Analysis of Different Hip Implant Designs along with Femur under Static Loading Conditions. Journal of Biomedical Physics and Engineering, 2019, 9, 507-516.	0.9	24
12	Wear estimation of trapezoidal and circular shaped hip implants along with varying taper trunnion radiuses using finite element method. Computer Methods and Programs in Biomedicine, 2020, 196, 105597.	4.7	23
13	Finite element analysis of hip implant with varying in taper neck lengths under static loading conditions. Computer Methods and Programs in Biomedicine, 2021, 208, 106273.	4.7	23
14	Stability characteristics of an externally adjustable fluid film bearing in the laminar and turbulent regimes. Tribology International, 2010, 43, 1751-1759.	5.9	22
15	Human Detection in Aerial Thermal Images Using Faster R-CNN and SSD Algorithms. Electronics (Switzerland), 2022, 11, 1151.	3.1	22
16	Effect of turbulence on the static performance of a misaligned externally adjustable fluid film bearing lubricated with couple stress fluids. Tribology International, 2011, 44, 1774-1781.	5.9	21
17	Comprehensive analysis of in-plane tensile characteristics of thin carbon/aramid hybrid composites using experimental and RVE- based numerical study. Composite Structures, 2021, 271, 114160.	5.8	20
18	Patient-Specific Static Structural Analysis of Femur Bone of different lengths. Open Biomedical Engineering Journal, 2018, 12, 108-114.	0.5	19

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19	Comparative Study of Femur Bone Having Different Boundary Conditions and Bone Structure Using Finite Element Method. <i>Open Biomedical Engineering Journal</i> , 2018, 12, 115-134.	0.5	18
20	Development of materials and structures for shielding applications against Blast and Ballistic impact: A Detailed Review. <i>Thin-Walled Structures</i> , 2022, 179, 109664.	5.3	18
21	Steady State Performance Characteristics of Single Pad Externally Adjustable Fluid Film Bearing in the Laminar and Turbulent Regimes. <i>Journal of Tribology</i> , 2009, 131, .	1.9	17
22	Role of different orthopedic biomaterials on wear of hip joint prosthesis: A review. <i>Materials Today: Proceedings</i> , 2018, 5, 20827-20836.	1.8	17
23	Influence of fabric orientation and compression factor on the mechanical properties of 3D E-glass reinforced epoxy composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8517-8527.	5.8	17
24	Static structural analysis of the effect of change in femoral head sizes used in Total Hip Arthroplasty using finite element method. <i>Cogent Engineering</i> , 2022, 9, .	2.2	17
25	Steady State Performance Characteristics of a Single Pad Externally Adjustable Fluid Film Bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2008, 2, 937-948.	0.7	16
26	A Comparative Evaluation of Stress Distribution with Two Attachment Systems of Varying Heights in a Mandibular Implantâ€Supported Overdenture: A Threeâ€Dimensional Finite Element Analysis. <i>Journal of Prosthodontics</i> , 2019, 28, e795-e805.	3.7	15
27	Optimized trapezoidal-shaped hip implant for total hip arthroplasty using finite element analysis. <i>Cogent Engineering</i> , 2020, 7, 1719575.	2.2	15
28	A Review on Gain Enhancement Techniques for Vertically Polarized Mid-Air Collision Avoidance Antenna for Airborne Applications. <i>IEEE Access</i> , 2021, 9, 30761-30792.	4.2	15
29	Mechanical Characterization and Water Ageing Behavior Studies of Grewia Serrulata Bast Fiber Reinforced Thermoset Composites. <i>Journal of Natural Fibers</i> , 2017, 14, 788-800.	3.1	14
30	Effect of fiber treatments on mechanical properties of Grewia serrulata bast fiber reinforced polyester composites. <i>Materials Today: Proceedings</i> , 2018, 5, 138-144.	1.8	13
31	Effect of CNT-Based Resin Modification on the Mechanical Properties of Polymer Composites. <i>Frontiers in Materials</i> , 2021, 7, .	2.4	13
32	Biomechanics of hip joint: a systematic review. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 1672.	0.3	12
33	Experimental study of hydrodynamic pressure distribution in oil lubricated two-axial groove journal bearing. <i>Materials Today: Proceedings</i> , 2015, 2, 3453-3462.	1.8	11
34	Advances in the Whipple Shield Design and Development:. <i>Journal of Dynamic Behavior of Materials</i> , 2022, 8, 20-38.	1.7	11
35	Nasal airflow comparison in neonates, infant and adult nasal cavities using computational fluid dynamics. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 214, 106538.	4.7	11
36	Aerodynamic comparison of slotted and non-slotted diffuser casings for Diffuser Augmented Wind Turbines (DAWT). <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112316.	16.4	11

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37	Recent developments in turbomachinery component materials and manufacturing challenges for aero engine applications. IOP Conference Series: Materials Science and Engineering, 2018, 314, 012012.	0.6	10
38	Computational flow analysis of a single peristaltic wave propagation in the ureter. Computer Methods and Programs in Biomedicine, 2021, 210, 106378.	4.7	9
39	Effect of intrusive and retraction forces in labial and lingual orthodontics: A finite element study. APOS Trends in Orthodontics, 2014, 4, 36.	0.1	9
40	Dynamic characteristics of a single pad externally adjustable fluid film bearing. Industrial Lubrication and Tribology, 2011, 63, 146-151.	1.3	8
41	A comparative study of forces in labial and lingual orthodontics using finite element method. The Journal of Indian Orthodontic Society, 2015, 49, 15-18.	0.4	8
42	Wear behaviour studies on Grewia Serrulata bast fibre reinforced polymer composites. Cogent Engineering, 2018, 5, 1517580.	2.2	8
43	Evolution of different designs and wear studies in total hip prosthesis using finite element analysis: A review. Cogent Engineering, 2022, 9, .	2.2	8
44	Performance evaluation of a single-pad, externally-adjustable fluid film bearing. Australian Journal of Mechanical Engineering, 2009, 7, 125-135.	2.1	7
45	FINITE ELEMENT ANALYSIS OF URINARY BLADDER WALL THICKNESS AT DIFFERENT PRESSURE CONDITION. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950029.	0.7	7
46	Investigation of Coronavirus Deposition in Realistic Human Nasal Cavity and Impact of Social Distancing to Contain COVID-19: A Computational Fluid Dynamic Approach. CMES - Computer Modeling in Engineering and Sciences, 2020, 125, 1185-1199.	1.1	7
47	Experimental and Numerical studies of Fiber Metal Laminates comprising Ballistic fabrics subjected to Shock Impact. Composite Structures, 2022, 297, 115917.	5.8	7
48	Stability of tri-taper journal bearings under dynamic load using a non-linear transient method. Tribology International, 2010, 43, 1584-1591.	5.9	6
49	Influence of stacking sequence on the mechanical properties of 3D E-glass/bamboo non-woven hybrid epoxy composites. Materials Today: Proceedings, 2021, 38, 2431-2438.	1.8	6
50	Effect of V-shaped Ribs on Internal Cooling of Gas Turbine Blades. Journal of Engineering and Technological Sciences, 2017, 49, 520-533.	0.6	6
51	Evaluation of Stress Generated with Different Abutment Materials and Angulations under Axial and Oblique Loading in the Anterior Maxilla: Three-Dimensional Finite Element Analysis. International Journal of Dentistry, 2021, 2021, 1-11.	1.5	6
52	A 3 dimensional assessment of the depth of tumor invasion in microinvasive tongue squamous cell carcinoma -A case series analysis. Medicina Oral, Patologia Oral Y Cirugia Bucal, 2015, 20, e645-e650.	1.7	5
53	Stability Characteristics of a Tri-taper Journal Bearing: a Linearized Perturbation Approach. Journal of Materials Research and Technology, 2012, 1, 84-90.	5.8	4
54	Effect of grooved cooling passage near the trailing edge region for HP stage gas turbine blade - a numerical investigation. Progress in Computational Fluid Dynamics, 2017, 17, 397.	0.2	4

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55	The scope of acoustic impedance matching of hybrid fiber metal laminates for shielding applications. Journal of King Saud University, Engineering Sciences, 2023, 35, 512-522.	2.0	4
56	Numerical investigation of influence of number of stent cells and type of link on expansion and haemodynamic behaviour of balloon-expandable coronary stent. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	1.3	3
57	Three-dimensional finite element analysis of initial displacement and stress on the craniofacial structures of unilateral cleft lip and palate model during protraction therapy with variable forces and directions. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 1360-1376.	1.6	3
58	Experimental investigation on dynamic and static transverse behaviour of thin woven Carbon/Aramid hybrid laminates. Journal of King Saud University, Engineering Sciences, 2020, , .	2.0	3
59	EFFECT OF CHEMICAL TREATMENTS ON HARDNESS AND TOUGHNESS PROPERTIES OF GREWIA SERRULATA REINFORCED POLYMER COMPOSITES. Journal of Mechanical Engineering Research and Developments (discontinued), 2019, 42, 228-230.	0.7	3
60	Review on Unconventional Wind Energy. Journal of Engineering and Technological Sciences, 2020, 52, 565.	0.6	3
61	Elastohydrodynamic Lubrication Analysis of a Radially Adjustable Partial Arc Bearing Using Fluid Structure Interaction. , 2007, , 193.		2
62	Development and evaluation of an optical fibre-based helium-neon laser irradiation system for tissue regeneration: A pilot study. Pramana - Journal of Physics, 2010, 75, 1287-1293.	1.8	2
63	Comparative approach to knee endoprosthesis stem materials - static analysis of bone-implant system by the means of FEM. Journal of Computational Methods in Sciences and Engineering, 2017, 17, 261-267.	0.2	2
64	Effect of grid size on fatigue life calculations of a dental implant. Journal of Computational Methods in Sciences and Engineering, 2017, 17, 289-293.	0.2	2
65	Effect of posterior tibial slope and implant material on the bone-implant system following TKA: A finite element study. Cogent Engineering, 2018, 5, 1513771.	2.2	2
66	Axial-flow compressor analysis under distorted phenomena at transonic flow conditions. Cogent Engineering, 2018, 5, 1526458.	2.2	2
67	Evaluation of Lingual Orthodontic appliances. Journal of Computational Methods in Sciences and Engineering, 2017, 17, 253-260.	0.2	1
68	Three dimensional assessment of protraction in craniofacial structures of cleft lip and palate model using Facemask and Maxgym. Journal of Computational Methods in Sciences and Engineering, 2019, 19, 553-561.	0.2	1
69	Comparative evaluation of stress distribution in bone surrounding implant using different implant biomaterials: A 3DFEA study. Journal of Computational Methods in Sciences and Engineering, 2019, 19, 523-532.	0.2	1
70	A review on vehicle tyre aerodynamics. AIP Conference Proceedings, 2021, , .	0.4	1
71	Effect of alkali treatment on physical and mechanical properties of bamboo short fibers. Journal of Computational Methods in Sciences and Engineering, 2021, 21, 535-543.	0.2	1
72	Recent developments of axial flow compressors under transonic flow conditions. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012078.	0.6	1

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73	Flow blockage in a transonic axial flow compressor: simulation analysis under distorted conditions. International Journal of Engineering and Technology(UAE), 2018, 7, 43.	0.3	1
74	Anchored versus Anchorless Detector for Car Detection in Aerial Imagery. , 2021, , .		1
75	Effect of Turbulence and Offset Loading on the Performance of a Single Pad Externally Adjustable Fluid Film Bearing. , 2012, , .		0
76	Application of finite element analysis on balloon expandable coronary stents: A review. International Journal of Engineering and Technology(UAE), 2018, 7, 1640.	0.3	0
77	Periprosthetic bone response to axial loading following TKR. Multidiscipline Modeling in Materials and Structures, 2019, 16, 359-372.	1.3	0
78	Multi-level hybridization in mitigating impact damages in advanced composites – A review on recent trends. Materials Today: Proceedings, 2021, 46, 9059-9066.	1.8	0
79	Effect of polyethylene insert thickness and implant material on micromotions at the bone-implant surface with cemented TKA: A finite element study. Journal of Computational Methods in Sciences and Engineering, 2021, 21, 555-561.	0.2	0
80	Finite element model for analysis of vibration damping characteristics of isotropic surface structures. Materials Today: Proceedings, 2021, , .	1.8	0
81	A comparative study of forces in labial and lingual orthodontics using finite element method. The Journal of Indian Orthodontic Society, 2015, 49, 15-18.	0.4	0
82	Numerical Analysis of Helical Grooved Channels Near the Leading Edge Region in Gas Turbine Blade. International Review of Mechanical Engineering, 2017, 11, 161.	0.2	0
83	Selected Peer-Reviewed Articles from the First International Conference on Healthcare and Technical Research (ICHTR 2015), Manipal, India, 22-24 December, 2015. Advanced Science Letters, 2017, 23, 1714-1717.	0.2	0
84	Fluid Structure Interaction Study of High Pressure Stage Gas Turbine Blade Having Grooved Cooling Channels. International Review of Mechanical Engineering, 2017, 11, 825.	0.2	0
85	Three dimensional finite element stress analysis of two and four implant supported prosthesis. Indian Journal of Public Health Research and Development, 2018, 9, 126.	0.0	0
86	Comparison of stress patterns in the edentulous mandibular bone around four implant retained over denture and all-on-four concept - A three dimensional finite element analysis. Indian Journal of Public Health Research and Development, 2018, 9, 111.	0.0	0
87	Heat Transfer Augmentation and Cooling of a Turbine Blade Using an Innovative Converging-Diverging Ducts – A CFD Study. International Review of Mechanical Engineering, 2018, 12, 570.	0.2	0
88	Three-dimensional assessment of transverse displacement with Facemask and Maxgym in unilateral cleft lip and palate model. Journal of the Indian Society of Pedodontics and Preventive Dentistry, 2019, 37, 177.	0.3	0
89	Comparison of Stress Patterns in Edentulous Mandibular Bone Around Two Implant Retained, Four Implant Retained Overdenture and All-On-Four Concept-A 3 Dimensional Finite Element Analysis. Indian Journal of Forensic Medicine and Toxicology (discontinued), 2019, 13, 264.	0.0	0
90	Effect of Helix Angle and Cross Section of Helicoidal Ducts in Gas Turbine Blade Cooling. International Review of Mechanical Engineering, 2019, 13, 87.	0.2	0

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91	Numerical Investigation of Flexibility: Open-Cell Versus Closed-Cell Stent Designs. International Review of Mechanical Engineering, 2020, 14, 224.	0.2	0
92	Comparative Evaluation of Stress Distribution Around Mandibular Overdentures Surrounded by Three and Four Implants: A Three-Dimensional Finite Element Analysis. Indian Journal of Forensic Medicine and Toxicology (discontinued), 0, , .	0.0	0
93	Ureterdynamic Analysis of Multiple Peristaltic Waves on Variable Diameter Ureter. Engineered Science, 2022, , .	2.3	0
94	Numerical Study of Single Pad Externally Adjustable 120° Pad Bearing Using Fluid Structure Interaction. , 2021, , .		0