Heow Pueh Lee

List of Publications by Year
in descending order

470 papers	13,993 citations	29994 54 h-index	37111 96 g-index
475 all docs	475 docs citations	475 times ranked	11338 citing authors

#	Article	IF	Citations
1	PROPER ORTHOGONAL DECOMPOSITION AND ITS APPLICATIONSâ€"PART I: THEORY. Journal of Sound and Vibration, 2002, 252, 527-544.	2.1	575
2	A comparison of PCA, KPCA and ICA for dimensionality reduction in support vector machine. Neurocomputing, 2003, 55, 321-336.	3.5	471
3	Modeling and analysis of micro piezoelectric power generators for micro-electromechanical-systems applications. Smart Materials and Structures, 2004, 13, 57-63.	1.8	408
4	Dynamic properties of flexural beams using a nonlocal elasticity model. Journal of Applied Physics, 2006, 99, 073510.	1.1	376
5	Thin plate theory including surface effects. International Journal of Solids and Structures, 2006, 43, 4631-4647.	1.3	370
6	Particle swarm optimization-based algorithms for TSP and generalized TSP. Information Processing Letters, 2007, 103, 169-176.	0.4	349
7	Application of nonlocal beam models for carbon nanotubes. International Journal of Solids and Structures, 2007, 44, 5289-5300.	1.3	328
8	An improved GA and a novel PSO-GA-based hybrid algorithm. Information Processing Letters, 2005, 93, 255-261.	0.4	306
9	Molecular dynamics simulation of a solid platinum nanowire under uniaxial tensile strain: Temperature and strain-rate effects. Physical Review B, 2005, 72, .	1.1	186
10	Investigation of hemodynamics in the development of dissecting aneurysm within patient-specific dissecting aneurismal aortas using computational fluid dynamics (CFD) simulations. Journal of Biomechanics, 2011, 44, 827-836.	0.9	180
11	Ant colony intelligence in multi-agent dynamic manufacturing scheduling. Engineering Applications of Artificial Intelligence, 2008, 21, 73-85.	4.3	176
12	Ballistic impact of a KEVLARÂ® helmet: Experiment and simulations. International Journal of Impact Engineering, 2008, 35, 304-318.	2.4	175
13	Comparison of implicit and explicit finite element methods for dynamic problems. Journal of Materials Processing Technology, 2000, 105, 110-118.	3.1	162
14	Molecular dynamics simulation of size and strain rate dependent mechanical response of FCC metallic nanowires. Nanotechnology, 2006, 17, 3451-3467.	1.3	162
15	Untethered soft robot capable of stable locomotion using soft electrostatic actuators. Extreme Mechanics Letters, 2018, 21, 9-16.	2.0	160
16	Effect of Porosity on Mechanical Properties of 3D Printed Polymers: Experiments and Micromechanical Modeling Based on X-Ray Computed Tomography Analysis. Polymers, 2019, 11, 1154.	2.0	158
17	Particle swarm optimization based on dimensional learning strategy. Swarm and Evolutionary Computation, 2019, 45, 33-51.	4.5	155
18	Parallel Sequential Minimal Optimization for the Training of Support Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1039-1049.	4.8	145

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19	Surface stress effects on the resonance properties of cantilever sensors. Physical Review B, 2005, 72, .	1.1	133
20	Large scale molecular dynamics study of nanometric machining of copper. Computational Materials Science, 2007, 41, 177-185.	1.4	120
21	Assessment of septal deviation effects on nasal air flow: A computational fluid dynamics model. Laryngoscope, 2009, 119, 1730-1736.	1.1	112
22	Finite element analysis of free vibration of delaminated composite plates. Composites Part B: Engineering, 1995, 5, 195-209.	0.6	104
23	Cupping: From a biomechanical perspective. Journal of Biomechanics, 2006, 39, 2183-2193.	0.9	104
24	Nonlinear Dynamic Analysis of MEMS Switches by Nonlinear Modal Analysis. Nonlinear Dynamics, 2003, 31, 243-256.	2.7	100
25	Nonlinear Finite Element Simulations to Elucidate the Determinants of Perforator Patency in Propeller Flaps. Annals of Plastic Surgery, 2007, 59, 672-678.	0.5	99
26	Modelling damage growth in composites subjected to impact and compression after impact. Composite Structures, 2017, 168, 13-25.	3.1	96
27	Labyrinthine acoustic metastructures enabling broadband sound absorption and ventilation. Applied Physics Letters, 2020, 116, .	1.5	91
28	PROPER ORTHOGONAL DECOMPOSITION AND ITS APPLICATIONS â€" PART II: MODEL REDUCTION FOR MEMS DYNAMICAL ANALYSIS. Journal of Sound and Vibration, 2002, 256, 515-532.	2.1	90
29	Objective Assessment of Increase in Breathing Resistance of N95 Respirators on Human Subjects. Annals of Occupational Hygiene, 2011, 55, 917-21.	1.9	90
30	Study of Materials Deformation in Nanometric Cutting by Large-scale Molecular Dynamics Simulations. Nanoscale Research Letters, 2009, 4, 444-451.	3.1	88
31	Dynamic Response of a Beam With Intermediate Point Constraints Subject to a Moving Load. Journal of Sound and Vibration, 1994, 171, 361-368.	2.1	87
32	Shear thickening fluid impregnated ballistic fabric composites for shock wave mitigation. International Journal of Impact Engineering, 2015, 80, 143-151.	2.4	86
33	Model development and numerical simulation of electric-stimulus-responsive hydrogels subject to an externally applied electric field. Biosensors and Bioelectronics, 2004, 19, 1097-1107.	5.3	81
34	Performance of an ant colony optimisation algorithm in dynamic job shop scheduling problems. International Journal of Production Research, 2009, 47, 2903-2920.	4.9	79
35	Strong and ductile nanolaminate composites combining metallic glasses and nanoglasses. International Journal of Plasticity, 2017, 90, 231-241.	4.1	78
36	On the relationship between failure mechanism and compression after impact (CAI) strength in composites. Composite Structures, 2017, 182, 242-250.	3.1	78

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37	Performance of an advanced combat helmet with different interior cushioning systems in ballistic impact: Experiments and finite element simulations. International Journal of Impact Engineering, 2012, 50, 99-112.	2.4	75
38	Finite element analysis of springback in L-bending of sheet metal. Journal of Materials Processing Technology, 2005, 168, 296-302.	3.1	72
39	Microlattice Metamaterials with Simultaneous Superior Acoustic and Mechanical Energy Absorption. Small, 2021, 17, e2100336.	5.2	72
40	A three-dimensional human head finite element model and power flow in a human head subject to impact loading. Journal of Biomechanics, 2006, 39, 284-292.	0.9	71
41	Dynamic response of a Timoshenko beam on a winkler foundation subjected to a moving mass. Applied Acoustics, 1998, 55, 203-215.	1.7	69
42	Clonal Selection Based Memetic Algorithm for Job Shop Scheduling Problems. Journal of Bionic Engineering, 2008, 5, 111-119.	2.7	64
43	Ventilated acoustic metamaterial window panels for simultaneous noise shielding and air circulation. Applied Acoustics, 2020, 159, 107088.	1.7	64
44	Aerodynamic effects of inferior turbinate surgery on nasal airflow--a computational fluid dynamics model. Rhinology, 2010, 48, 394-400.	0.7	64
45	Muco-ciliary transport: Effect of mucus viscosity, cilia beat frequency and cilia density. Computers and Fluids, 2011, 49, 214-221.	1.3	63
46	Dynamic response of a rotating timoshenko shaft subject to axial forces and moving loads. Journal of Sound and Vibration, 1995, 181, 169-177.	2.1	62
47	Impacts of Fluid Dynamics Simulation in Study of Nasal Airflow Physiology and Pathophysiology in Realistic Human Three-Dimensional Nose Models. Clinical and Experimental Otorhinolaryngology, 2012, 5, 181.	1.1	62
48	Evaluation and comparison of nasal airway flow patterns among three subjects from Caucasian, Chinese and Indian ethnic groups using computational fluid dynamics simulation. Respiratory Physiology and Neurobiology, 2011, 175, 62-69.	0.7	61
49	Microstructure-based experimental and numerical investigations on the sound absorption property of open-cell metallic foams manufactured by a template replication technique. Materials and Design, 2018, 137, 108-116.	3.3	61
50	IMPROVED ELMAN NETWORKS AND APPLICATIONS FOR CONTROLLING ULTRASONIC MOTORS. Applied Artificial Intelligence, 2004, 18, 603-629.	2.0	59
51	Exact solutions for simply supported functionally graded piezoelectric laminates by Stroh-like formalism. Composite Structures, 2006, 72, 352-363.	3.1	59
52	Vibration of cracked rectangular plates including transverse shear deformation and rotary inertia. Computers and Structures, 1993, 49, 715-718.	2.4	58
53	Dynamic response of a cracked beam subject to a moving load. Acta Mechanica, 1994, 106, 221-230.	1.1	58
54	Solving traveling salesman problems using generalized chromosome genetic algorithm. Progress in Natural Science: Materials International, 2008, 18, 887-892.	1.8	57

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55	An Investigation of the Sound Absorption Properties of Flax/Epoxy Composites Compared with Glass/Epoxy Composites. Journal of Natural Fibers, 2017, 14, 71-77.	1.7	56
56	Analysis of valveless micropumps with inertial effects. Journal of Micromechanics and Microengineering, 2003, 13, 390-399.	1.5	54
57	Shock-Induced Localized Amorphization in Metallic Nanorods with Strain-Rate-Dependent Characteristics. Nano Letters, 2006, 6, 2260-2267.	4.5	52
58	Snoring source identification and snoring noise prediction. Journal of Biomechanics, 2007, 40, 861-870.	0.9	52
59	The variation of ice adhesion strength with substrate surface roughness. Measurement Science and Technology, 2010, 21, 075701.	1.4	51
60	A vibro-acoustic modulation method for the detection of delamination and kissing bond in composites. Journal of Composite Materials, 2016, 50, 3089-3104.	1.2	50
61	Effects of inter-ply angles on the failure mechanisms in bioinspired helicoidal laminates. Composites Science and Technology, 2018, 165, 282-289.	3.8	50
62	The Present and Future Role of Acoustic Metamaterials for Architectural and Urban Noise Mitigations. Acoustics, 2019, 1, 590-607.	0.8	50
63	A computational fluid dynamics study on geometrical influence of the aorta on haemodynamics. European Journal of Cardio-thoracic Surgery, 2013, 43, 829-838.	0.6	49
64	Industrial applications of the ant colony optimization algorithm. International Journal of Advanced Manufacturing Technology, 2006, 31, 805-814.	1.5	48
65	Environmental durability of carbon/flax fiber hybrid composites. Composite Structures, 2020, 234, 111719.	3.1	48
66	A quasi-zero-stiffness device capable of vibration isolation and energy harvesting using piezoelectric buckled beams. Energy, 2021, 233, 121146.	4.5	48
67	An exact solution for functionally graded piezoelectric laminates in cylindrical bending. International Journal of Mechanical Sciences, 2005, 47, 437-458.	3.6	47
68	Transverse vibration of a Timoshenko beam acted on by an accelerating mass. Applied Acoustics, 1996, 47, 319-330.	1.7	46
69	Control of a Soft Inchworm Robot With Environment Adaptation. IEEE Transactions on Industrial Electronics, 2020, 67, 3809-3818.	5.2	46
70	Crystallization of amorphous alloy during isothermal annealing: a molecular dynamics study. Journal of Physics Condensed Matter, 2005, 17, 1493-1504.	0.7	45
71	Optofluidic variable-focus lenses for light manipulation. Lab on A Chip, 2012, 12, 3810.	3.1	45
72	Body Wave Generation for Anguilliform Locomotion Using a Fiber-Reinforced Soft Fluidic Elastomer Actuator Array Toward the Development of the Eel-Inspired Underwater Soft Robot. Soft Robotics, 2020, 7, 233-250.	4.6	45

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73	Finite element modeling of nonlinear acoustics/ultrasonics for the detection of closed delaminations in composites. Ultrasonics, 2017, 74, 89-98.	2.1	44
74	Changes of Airflow Pattern in Inferior Turbinate Hypertrophy: A Computational Fluid Dynamics Model. American Journal of Rhinology and Allergy, 2009, 23, 153-158.	1.0	43
75	An experimental study on shock wave mitigation capability of polyurea and shear thickening fluid based suspension pads. Defence Technology, 2018, 14, 12-18.	2.1	43
76	Direct FE2 for concurrent multilevel modelling of heterogeneous structures. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112694.	3.4	43
77	Modified support vector novelty detector using training data with outliers. Pattern Recognition Letters, 2003, 24, 2479-2487.	2.6	42
78	Numerical Simulation of the Effects of Inferior Turbinate Surgery on Nasal Airway Heating Capacity. American Journal of Rhinology and Allergy, 2010, 24, e118-e122.	1.0	42
79	Failure mechanisms in bioinspired helicoidal laminates. Composites Science and Technology, 2018, 157, 99-106.	3.8	42
80	On the improved ballistic performance of bio-inspired composites. Composites Part A: Applied Science and Manufacturing, 2019, 123, 59-70.	3.8	42
81	The perspective of fluid flow behavior of respiratory droplets and aerosols through the facemasks in context of SARS-CoV-2. Physics of Fluids, 2020, 32, 111301.	1.6	42
82	Passive and active interior noise control of box structures using the structural intensity method. Applied Acoustics, 2006, 67, 112-134.	1.7	41
83	Acoustic Metamaterials: A Potential for Cabin Noise Control in Automobiles and Armored Vehicles. International Journal of Applied Mechanics, 2016, 08, 1650072.	1.3	41
84	A Review on Acoustic Black-Holes (ABH) and the Experimental and Numerical Study of ABH-Featured 3D Printed Beams. International Journal of Applied Mechanics, 2017, 09, 1750078.	1.3	41
85	Wave Scattering from Fractal Surfaces. Journal of Modern Optics, 1995, 42, 225-241.	0.6	40
86	Finite element analysis of spring-back of V-bending sheet metal forming processes. Journal of Materials Processing Technology, 2004, 148, 15-24.	3.1	40
87	A review of the implications of computational fluid dynamic studies on nasal airflow and physiology. Rhinology, 2010, 48, 139-45.	0.7	40
88	Strong and superplastic nanoglass. Nanoscale, 2015, 7, 17404-17409.	2.8	39
89	Recent trends in cancer incidence among Singapore Chinese. International Journal of Cancer, 1988, 42, 159-166.	2.3	38
90	Finite element analysis of interference for the laterally coupled quartz crystal microbalances. Sensors and Actuators A: Physical, 2005, 119, 90-99.	2.0	38

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91	Passive movement of human soft palate during respiration: A simulation of 3D fluid/structure interaction. Journal of Biomechanics, 2012, 45, 1992-2000.	0.9	38
92	Prediction of natural frequencies of rectangular plates with rectangular cutouts. Computers and Structures, 1990, 36, 861-869.	2.4	37
93	Broadband sound transmission loss of a large-scale membrane-type acoustic metamaterial for low-frequency noise control. Applied Physics Letters, 2017, 111, .	1.5	37
94	Optimal partition algorithm of the RBF neural network and its application to financial time series forecasting. Neural Computing and Applications, 2005, 14, 36-44.	3.2	36
95	Thermoelastic damping in cylindrical shells with application to tubular oscillator structures. International Journal of Mechanical Sciences, 2008, 50, 501-512.	3.6	36
96	Biomechanics of the deformity of septal Lâ€Struts. Laryngoscope, 2010, 120, 1508-1515.	1.1	36
97	Finite element analysis for the evaluation of protective functions of helmets against ballistic impact. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 537-550.	0.9	36
98	Computer-Aided Analysis of the â€œBeautifulâ€•Umbilicus. Aesthetic Surgery Journal, 2014, 34, 748-756.	0.9	36
99	3D coupled Eulerian-Lagrangian finite element analysis of end milling. International Journal of Advanced Manufacturing Technology, 2018, 98, 849-857.	1.5	36
100	An averaging method for accurately calibrating smartphone microphones for environmental noise measurement. Applied Acoustics, 2019, 143, 222-228.	1.7	36
101	Contact mechanics of surfaces with various models of roughness descriptions. Wear, 2001, 249, 539-545.	1.5	35
102	A neural-network-based method of model reduction for the dynamic simulation of MEMS. Journal of Micromechanics and Microengineering, 2001, 11, 226-233.	1.5	35
103	Material characterization of filament-wound composite pipes. Composite Structures, 2018, 206, 474-483.	3.1	35
104	Plate-type acoustic metamaterials: Evaluation of a large-scale design adopting modularity for customizable acoustical performance. Applied Acoustics, 2019, 149, 156-170.	1.7	35
105	Fundamental frequencies of annular plates with internal cracks. Computers and Structures, 1992, 43, 1085-1089.	2.4	34
106	Development and numerical characterization of a new standing wave ultrasonic motor operating in the 30â€"40kHz frequency range. Ultrasonics, 2013, 53, 928-934.	2.1	34
107	Development and validation of two subjectâ€specific finite element models of human head against three cadaveric experiments. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 397-415.	1.0	34
108	Assessment of airflow ventilation in human nasal cavity and maxillary sinus before and after targeted sinonasal surgery: A numerical case study. Respiratory Physiology and Neurobiology, 2014, 194, 29-36.	0.7	34

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109	Plate-type acoustic metamaterial with cavities coupled via an orifice for enhanced sound transmission loss. Applied Physics Letters, 2018, 112, .	1.5	34
110	Recent Advances in Acoustic Metamaterials for Simultaneous Sound Attenuation and Air Ventilation Performances. Crystals, 2020, 10, 686.	1.0	34
111	The response of bio-inspired helicoidal laminates to small projectile impact. International Journal of Impact Engineering, 2020, 142, 103608.	2.4	34
112	Mechanical modeling of longitudinal oscillation ultrasonic motors and temperature effect analysis. Smart Materials and Structures, 2003, 12, 514-523.	1.8	33
113	Structural intensity study of plates under low-velocity impact. International Journal of Impact Engineering, 2005, 31, 957-975.	2.4	33
114	Thermal–mechanical study of functionally graded dental implants with the finite element method. Journal of Biomedical Materials Research - Part A, 2007, 80A, 146-158.	2.1	33
115	Dynamic analysis of lunar lander during soft landing using explicit finite element method. Acta Astronautica, 2018, 148, 69-81.	1.7	33
116	Buckling and dynamic stability of spinning pre-twisted beams under compressive axial loads. International Journal of Mechanical Sciences, 1994, 36, 1011-1026.	3.6	32
117	Dynamic stability of a tapered cantilever beam on an elastic foundation subjected to a follower force. International Journal of Solids and Structures, 1996, 33, 1409-1424.	1.3	32
118	A fast algorithm for three-dimensional potential fields calculation: fast Fourier transform on multipoles. Journal of Computational Physics, 2003, 192, 244-261.	1.9	32
119	Bus maintenance scheduling using multi-agent systems. Engineering Applications of Artificial Intelligence, 2004, 17, 623-630.	4.3	32
120	Deformation of nasal septum during nasal trauma. Laryngoscope, 2010, 120, 1931-1939.	1.1	32
121	Natural frequencies and modes for the flexural vibration of a cracked beam. Applied Acoustics, 1994, 42, 151-163.	1.7	31
122	Free vibration of plates with stepped variations in thickness on non-homogeneous elastic foundations. Journal of Sound and Vibration, 1995, 183, 533-545.	2.1	31
123	Saliency Analysis of Support Vector Machines for Gene Selection in Tissue Classification. Neural Computing and Applications, 2003, 11, 244-249.	3.2	31
124	Effect of interlayer carbon fiber dispersion on the low-velocity impact performance of woven flax-carbon hybrid composites. Journal of Composite Materials, 2019, 53, 1717-1734.	1.2	31
125	Free vibration of composite rectangular plates with rectangular cutouts. Composite Structures, 1987, 8, 63-81.	3.1	30
126	Three-dimensional numerical simulations of human pulmonary cilia in the periciliary liquid layer by the immersed boundary method. Computers and Fluids, 2012, 67, 130-137.	1.3	30

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127	The design and dynamic analysis of a lunar lander with semi-active control. Acta Astronautica, 2019, 157, 145-156.	1.7	30
128	Diversion of energy flow near crack tips of a vibrating plate using the structural intensity technique. Journal of Sound and Vibration, 2006, 296, 602-622.	2.1	29
129	Prediction of the mechanical behavior of flax polypropylene composites based on multi-scale finite element analysis. Journal of Materials Science, 2017, 52, 4957-4967.	1.7	29
130	Recent Advances in Active Acoustic Metamaterials. International Journal of Applied Mechanics, 2019, 11, 1950081.	1.3	29
131	The energy flow analysis in stiffened plates of marine structures. Thin-Walled Structures, 2004, 42, 979-994.	2.7	28
132	Tunable optofluidic switch via hydrodynamic control of laminar flow rate. Applied Physics Letters, 2009, 95, 114105.	1.5	28
133	Globally-optimal prediction-based adaptive mutation particle swarm optimization. Information Sciences, 2017, 418-419, 186-217.	4.0	28
134	Free vibration of isotropic and orthotropic square plates with square cutouts subjected to in-plane forces. Computers and Structures, 1992, 43, 431-437.	2.4	27
135	Free-vibration analysis of composite beams with multiple delaminations. Composites Part B: Engineering, 1994, 4, 715-730.	0.6	27
136	On the free vibration of stepped beams. International Journal of Solids and Structures, 1994, 31, 3125-3137.	1.3	27
137	Successive approximation training algorithm for feedforward neural networks. Neurocomputing, 2002, 42, 311-322.	3.5	27
138	Indicators for the correct usage of intranasal medications: A computational fluid dynamics study. Laryngoscope, 2009, 119, 1975-1982.	1.1	27
139	Effects of septal perforation on nasal airflow: computer simulation study. Journal of Laryngology and Otology, 2010, 124, 48-54.	0.4	27
140	Simultaneous energy harvesting and vibration isolation via quasi-zero-stiffness support and radially distributed piezoelectric cantilever beams. Applied Mathematical Modelling, 2021, 100, 152-169.	2.2	27
141	Effect of gravity on the stability of a rotating cantilever beam in a vertical plane. Computers and Structures, 1994, 53, 351-355.	2.4	26
142	Divergence and flutter of a cantilever rod with an intermediate spring support. International Journal of Solids and Structures, 1995, 32, 1371-1382.	1.3	26
143	Using 3D fluidâ€"structure interaction model to analyse the biomechanical properties of erythrocyte. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1357-1362.	0.9	26
144	Computational simulation of the human head response to non-contact impact. Computers and Structures, 2008, 86, 758-770.	2.4	26

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145	Applying Ant Colony Optimisation (ACO) algorithm to dynamic job shop scheduling problems. International Journal of Manufacturing Research, 2008, 3, 301.	0.1	26
146	A Computational Fluid Dynamics Model for Drug Delivery in a Nasal Cavity with Inferior Turbinate Hypertrophy. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2010, 23, 329-338.	0.7	26
147	Quieter propeller with serrated trailing edge. Applied Acoustics, 2019, 146, 227-236.	1.7	26
148	Free vibration of composite plates with delaminations around cutouts. Composite Structures, 1995, 31, 177-183.	3.1	25
149	Quartz crystal microbalance with rigid mass partially attached on electrode surfaces. Sensors and Actuators A: Physical, 2004, 112, 203-210.	2.0	25
150	Effect of ultrasound on cyprids and juvenile barnacles. Biofouling, 2011, 27, 185-192.	0.8	25
151	Drug delivery in the nasal cavity after functional endoscopic sinus surgery: a computational fluid dynamics study. Journal of Laryngology and Otology, 2012, 126, 487-494.	0.4	25
152	Inspirational airflow patterns in deviated noses: a numerical study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 1298-1306.	0.9	25
153	Effect of helmet liner systems and impact directions on severity of head injuries sustained in ballistic impacts: a finite element (FE) study. Medical and Biological Engineering and Computing, 2017, 55, 641-662.	1.6	25
154	Improving laminates through non-uniform inter-ply angles. Composites Part A: Applied Science and Manufacturing, 2019, 127, 105625.	3.8	25
155	Dynamic stability of a radially rotating beam subjected to base excitation. Computer Methods in Applied Mechanics and Engineering, 1997, 146, 265-279.	3.4	24
156	Structural intensity in plates with multiple discrete and distributed spring–dashpot systems. Journal of Sound and Vibration, 2004, 276, 627-648.	2.1	24
157	High resolution UV roll-to-roll nanoimprinting of resin moulds and subsequent replication via thermal nanoimprint lithography. Nanotechnology, 2012, 23, 485310.	1.3	24
158	Numerical evaluation of station-keeping strategies for stratospheric balloons. Aerospace Science and Technology, 2018, 80, 288-300.	2.5	24
159	Aerodynamic Characteristics inside the Rhino-Sinonasal Cavity after Functional Endoscopic Sinus Surgery. American Journal of Rhinology and Allergy, 2011, 25, 388-392.	1.0	24
160	Generalized chromosome genetic algorithm for generalized traveling salesman problems and its applications for machining. Physical Review E, 2004, 70, 016701.	0.8	23
161	Structural intensity analysis of thin laminated composite plates subjected to thermally induced vibration. Composite Structures, 2007, 78, 70-83.	3.1	23
162	Inhibition of barnacle cyprid settlement using low frequency and intensity ultrasound. Biofouling, 2012, 28, 131-141.	0.8	23

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163	A theoretical and numerical study on the mechanics of vibro-acoustic modulation. Journal of the Acoustical Society of America, 2017, 141, 2821-2831.	0.5	23
164	Assessment of noise from equipment and processes at construction sites. Building Acoustics, 2017, 24, 21-34.	1.1	23
165	Dynamic stability of spinning pre-twisted beams subject to axial pulsating loads. Computer Methods in Applied Mechanics and Engineering, 1995, 127, 115-126.	3.4	22
166	Local optimization of weighted joint torques for redundant robotic manipulators. IEEE Transactions on Automation Science and Engineering, 1995, 11, 422-425.	2.4	22
167	Design of a Geneva mechanism with curved slots using parametric polynomials. Mechanism and Machine Theory, 1998, 33, 321-329.	2.7	22
168	The structural intensities of composite plates with a hole. Composite Structures, 2004, 65, 493-498.	3.1	22
169	Developing parallel sequential minimal optimization for fast training support vector machine. Neurocomputing, 2006, 70, 93-104.	3.5	22
170	Automatic mesh-healing technique for model repair and finite element model generation. Finite Elements in Analysis and Design, 2007, 43, 1109-1119.	1.7	22
171	Characterization and separation of *Cryptosporidium* and *Giardia* cells using on-chip dielectrophoresis. Biomicrofluidics, 2012, 6, 12805-1280514.	1.2	22
172	Effect of accessory ostia on maxillary sinus ventilation: A computational fluid dynamics (CFD) study. Respiratory Physiology and Neurobiology, 2012, 183, 91-99.	0.7	22
173	A numerical study of muco-ciliary transport under the condition of diseased cilia. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 944-951.	0.9	22
174	Vibroacoustic behavior and noise control of flax fiber-reinforced polypropylene composites. Journal of Natural Fibers, 2019, 16, 729-743.	1.7	22
175	Prediction of noise inside tracked vehicles. Applied Acoustics, 2006, 67, 74-91.	1.7	21
176	Frequency Response of a Quartz Crystal Microbalance Loaded by Liquid Drops. Langmuir, 2007, 23, 7392-7397.	1.6	21
177	Can traditional â€œcuppingâ€•treatment cause a stroke?. Medical Hypotheses, 2010, 74, 945-949.	0.8	21
178	Inhibitory effect of ultrasound on barnacle (Amphibalanus amphitrite) cyprid settlement. Journal of Experimental Marine Biology and Ecology, 2011, 409, 253-258.	0.7	21
179	Investigation of the relationship between facial injuries and traumatic brain injuries using a realistic subject-specific finite element head model. Accident Analysis and Prevention, 2015, 79, 13-32.	3.0	21
180	The performance of active noise-canceling headphones in different noise environments. Applied Acoustics, 2017, 122, 16-22.	1.7	21

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181	Sound absorption performance and mechanism of flexible PVA microperforated membrane. Applied Acoustics, 2022, 185, 108420.	1.7	21
182	Constitutive model development and micro-structural topology optimisation for Nafion hydrogel membranes with ionic clustering. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 1181-1196.	1.9	20
183	The effect of cavitation bubbles on the removal of juvenile barnacles. Colloids and Surfaces B: Biointerfaces, 2013, 109, 219-227.	2.5	20
184	Empirical concentration bounds for compressive holographic bubble imaging based on a Mie scattering model. Optics Express, 2015, 23, 4715.	1.7	20
185	Contact modeling of viscoelastic friction layer of traveling wave ultrasonic motors. Smart Materials and Structures, 2001, 10, 314-320.	1.8	19
186	Characterization of kidney stones using thermogravimetric analysis with electron dispersive spectroscopy. Urological Research, 2012, 40, 197-204.	1.5	19
187	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. BioMed Research International, 2014, 2014, 1-10.	0.9	19
188	Shock wave impact behavior of flax fiber reinforced polymer composites. Composites Part B: Engineering, 2016, 102, 78-85.	5.9	19
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