

Mehmet Yildiz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

2,158
citations

27
h-index

40
g-index

122
ext. papers

2,607
ext. citations

4
avg, IF

5.67
L-index

#	Paper	IF	Citations
115	Coupling of peridynamics and inverse finite element method for shape sensing and crack propagation monitoring of plate structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 391, 114520	5.7	4
114	A generalized hybrid smoothed particle hydrodynamics-peridynamics algorithm with a novel Lagrangian mapping for solution and failure analysis of fluid-structure interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 389, 114370	5.7	1
113	Failure sequence determination in sandwich structures using concurrent acoustic emission monitoring and postmortem thermography. <i>Mechanics of Materials</i> , 2022 , 164, 104113	3.3	2
112	The effect of different tabbing methods on the damage progression and failure of carbon fiber reinforced composite material under tensile loading. <i>Polymer Testing</i> , 2022 , 111, 107612	4.5	0
111	Thermo-responsive and shape-morphing CF/GF composite skin: Full-field experimental measurement, theoretical prediction, and finite element analysis. <i>Thin-Walled Structures</i> , 2021 , 160, 106874	4.7	4
110	Mechanical behavior and failure of glass/carbon fiber hybrid composites: Multiscale computational predictions validated by experiments. <i>Composite Structures</i> , 2021 , 260, 113499	5.3	8
109	Using digital image correlation for in situ strain and damage monitoring in hybrid fiber laminates under in-plane shear loading. <i>Polymer Composites</i> , 2021 , 42, 4029-4042	3	3
108	An improved ordinary-state based peridynamic formulation for modeling FGMs with sharp interface transitions. <i>International Journal of Mechanical Sciences</i> , 2021 , 197, 106322	5.5	4
107	Dynamics of double emulsion interfaces under the combined effects of electric field and shear flow. <i>Computational Mechanics</i> , 2021 , 68, 775-793	4	1
106	Multi-material topology optimization of structures with discontinuities using Peridynamics. <i>Composite Structures</i> , 2021 , 258, 113345	5.3	5
105	An experimental implementation of inverse finite element method for real-time shape and strain sensing of composite and sandwich structures. <i>Composite Structures</i> , 2021 , 258, 113431	5.3	11
104	A smoothed iFEM approach for efficient shape-sensing applications: Numerical and experimental validation on composite structures. <i>Mechanical Systems and Signal Processing</i> , 2021 , 152, 107486	7.8	27
103	Numerical simulations of multi-phase electro-hydrodynamics flows using a simple incompressible smoothed particle hydrodynamics method. <i>Computers and Mathematics With Applications</i> , 2021 , 81, 772-785	2.7	27
102	The Effect of Iterative Procedures on the Robustness and Fidelity of Augmented Lagrangian SPH. <i>Symmetry</i> , 2021 , 13, 472	2.7	0
101	A novel hybrid damage monitoring approach to understand the correlation between size effect and failure behavior of twill CFRP laminates. <i>Composite Structures</i> , 2021 , 270, 114064	5.3	7
100	A two-stage optimization methodology for gate and vent locations and distribution media layout for liquid composite molding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106522	8.4	1
99	A new methodology for thermoelastic model identification in composite materials using digital image correlation. <i>Optics and Lasers in Engineering</i> , 2021 , 146, 106689	4.6	2

98	Experimental failure analysis and mechanical performance evaluation of fiber-metal sandwich laminates interleaved with polyamide-6,6 interlayers through the combined usage of acoustic emission, thermography and microscopy techniques. <i>Journal of Sandwich Structures and Materials</i> , 2020 , 109963622092465	2.1	4
97	An ordinary state-based peridynamic model for toughness enhancement of brittle materials through drilling stop-holes. <i>International Journal of Mechanical Sciences</i> , 2020 , 182, 105773	5.5	4
96	Damage mechanisms in CFRP/HNT laminates under flexural and in-plane shear loadings using experimental and numerical methods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 136, 105962	8.4	11
95	Modelling of wave generation in a numerical tank by SPH method. <i>Journal of Ocean Engineering and Marine Energy</i> , 2020 , 6, 121-136	1.5	6
94	3D printing of silver-doped polycaprolactone-poly(propylene succinate) composite scaffolds for skin tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 035015	3.5	16
93	Realtime Localization and Estimation of Loads on Aircraft Wings from Depth Images. <i>Sensors</i> , 2020 , 20,	3.8	3
92	Investigation on interlaminar delamination tendency of multidirectional carbon fiber composites. <i>Polymer Testing</i> , 2020 , 90, 106653	4.5	9
91	Non-destructive determination of the stiffness matrix of a laminated composite structure with lamb wave. <i>Composite Structures</i> , 2020 , 237, 111956	5.3	8
90	Electrohydrodynamics of a droplet in a highly confined domain: A numerical study. <i>Physics of Fluids</i> , 2020 , 32, 123305	4.4	3
89	Toward Next-Generation Carbon-Based Materials Derived from Waste and Biomass for High-Performance Energy Applications. <i>Energy Technology</i> , 2020 , 8, 2000714	3.5	3
88	A Comparative and Review Study on Shape and Stress Sensing of Flat/Curved Shell Geometries Using C-Continuous Family of iFEM Elements. <i>Sensors</i> , 2020 , 20,	3.8	14
87	An experimental study on tensile and bending properties of biaxial warp knitted textile composites. <i>Advanced Composite Materials</i> , 2020 , 29, 73-88	2.8	4
86	Effect of nanomaterials/nanofibers on the structure and properties of fiber-reinforced composites 2020 , 157-182		
85	Development of computationally efficient augmented Lagrangian SPH for incompressible flows and its quantitative comparison with WCSPH simulating flow past a circular cylinder. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 4187-4207	2.4	6
84	Topology optimization of cracked structures using peridynamics. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1645-1672	3.5	34
83	Determining tab material for tensile test of CFRP laminates with combined usage of digital image correlation and acoustic emission techniques. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 127, 105623	8.4	20
82	Microscopic analysis of failure in woven carbon fabric laminates coupled with digital image correlation and acoustic emission. <i>Composite Structures</i> , 2019 , 230, 111515	5.3	24
81	Experimental and numerical investigation on fracture behavior of glass/carbon fiber hybrid composites using acoustic emission method and refined zigzag theory. <i>Composite Structures</i> , 2019 , 223, 110971	5.3	43

80	Facile Synthesis of Single- and Multi-Layer Graphene/Mn ₃ O ₄ Integrated 3D Urchin-Shaped Hybrid Composite Electrodes by Core-Shell Electrospinning. <i>ChemNanoMat</i> , 2019 , 5, 792-801	3.5	12
79	Design of fiber-reinforced variable-stiffness composites for different open-hole geometries with fiber continuity and curvature constraints. <i>Composite Structures</i> , 2019 , 226, 111280	5.3	22
78	Experimental study on dynamic behavior of woven carbon fabric laminates using in-house piezoelectric sensors. <i>Smart Materials and Structures</i> , 2019 , 28, 105004	3.4	6
77	Three-Dimensional Graphene-Based Structures: Production Methods, Properties, and Applications 2019 , 359-387		3
76	Density-based smoothed particle hydrodynamics methods for incompressible flows. <i>Computers and Fluids</i> , 2019 , 185, 22-33	2.8	17
75	Design of variable stiffness composite structures using lamination parameters with fiber steering constraint. <i>Composites Part B: Engineering</i> , 2019 , 165, 733-746	10	23
74	A novel isogeometric beam element based on mixed form of refined zigzag theory for thick sandwich and multilayered composite beams. <i>Composites Part B: Engineering</i> , 2019 , 167, 100-121	10	22
73	Remaining useful life prediction of laminated composite materials using Thermoelastic Stress Analysis. <i>Composite Structures</i> , 2019 , 210, 381-390	5.3	10
72	Polymer Composites Containing Functionalized Nanoparticles and the Environment 2019 , 437-466		2
71	Design and Development of a Phased Array System for Damage Detection in Structures. <i>Computational and Experimental Methods in Structures</i> , 2018 , 153-189		
70	Three dimensional shape and stress monitoring of bulk carriers based on iFEM methodology. <i>Ocean Engineering</i> , 2018 , 147, 256-267	3.9	38
69	A hybrid damage assessment for E-and S-glass reinforced laminated composite structures under in-plane shear loading. <i>Composite Structures</i> , 2018 , 186, 347-354	5.3	25
68	Isogeometric analysis using peridynamics and XFEM 2018 ,		2
67	A multiphase ISPH method for simulation of droplet coalescence and electro-coalescence. <i>International Journal of Multiphase Flow</i> , 2018 , 105, 32-44	3.6	28
66	Modeling 3D melt electrospinning writing by response surface methodology. <i>Materials and Design</i> , 2018 , 148, 87-95	8.1	33
65	The performance of embedded fiber Bragg grating sensors for monitoring failure modes of foam cored sandwich structures under flexural loads. <i>Journal of Sandwich Structures and Materials</i> , 2018 , 20, 553-577	2.1	9
64	Semi-intrinsic self-healing performance of liquid-cored microcapsules in epoxy matrix. <i>Advances in Polymer Technology</i> , 2018 , 37, 1435-1443	1.9	1
63	Efficient strategies for reliability-based design optimization of variable stiffness composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 689-704	3.6	15

62	Design of Pt-Supported 1D and 3D Multilayer Graphene-Based Structural Composite Electrodes with Controlled Morphology by Core-Shell Electrospinning/Electrospraying. <i>ACS Omega</i> , 2018 , 3, 6400-6410	3.9	10
61	Cost analysis of variable stiffness composite structures with application to a wind turbine blade. <i>Composite Structures</i> , 2018 , 203, 681-695	5.3	11
60	A numerical study of Rayleigh-Taylor instability for various Atwood numbers using ISPH method. <i>Progress in Computational Fluid Dynamics</i> , 2018 , 18, 267	0.7	3
59	Tailoring viscoelastic response, self-heating and deicing properties of carbon-fiber reinforced epoxy composites by graphene modification. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 106, 1-10	8.4	31
58	Manufacturing of electroactive morphing carbon fiber/glass fiber/epoxy composite: Process and structural monitoring by FBG sensors. <i>Thin-Walled Structures</i> , 2018 , 130, 458-466	4.7	10
57	The combined effect of electric forces and confinement ratio on the bubble rising. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 65, 352-362	2.4	12
56	Manufacturing functionalized mono-crystalline diamond containing electrospun fibers reinforced epoxy composites with improved mechanical characteristics. <i>Diamond and Related Materials</i> , 2017 , 76, 90-96	3.5	8
55	Monitoring the interface and bulk self-healing capability of tri-axial electrospun fibers in glass fiber reinforced epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 99, 221-232	8.4	31
54	Design optimization of thin-walled composite structures based on material and fiber orientation. <i>Composite Structures</i> , 2017 , 176, 1081-1095	5.3	17
53	A coupled WC-TL SPH method for simulation of hydroelastic problems. <i>International Journal of Computational Fluid Dynamics</i> , 2017 , 31, 174-187	1.2	15
52	A systematic study on numerical simulation of electrified jet printing. <i>Additive Manufacturing</i> , 2017 , 18, 15-21	6.1	4
51	A study on correlating reduction in Poisson's ratio with transverse crack and delamination through acoustic emission signals. <i>Polymer Testing</i> , 2017 , 63, 47-53	4.5	19
50	Self-Healing Thermosetting Composites: Concepts, Chemistry, and Future Advances 2017 , 121-150		1
49	Monitoring the Damage State of Fiber Reinforced Composites Using an FBG Network for Failure Prediction. <i>Materials</i> , 2017 , 10,	3.5	14
48	Modeling of Sensor Placement Strategy for Shape Sensing and Structural Health Monitoring of a Wing-Shaped Sandwich Panel Using Inverse Finite Element Method. <i>Sensors</i> , 2017 , 17,	3.8	38
47	Numerical simulation of the electrohydrodynamic effects on bubble rising using the SPH method. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 62, 313-323	2.4	19
46	Cavitating nozzle flows in micro- and minichannels under the effect of turbulence. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 2565-2581	1.6	17
45	Monitoring Poisson's ratio of glass fiber reinforced composites as damage index using biaxial Fiber Bragg Grating sensors. <i>Polymer Testing</i> , 2016 , 53, 98-107	4.5	16

44	The effect of normal electric field on the evolution of immiscible Rayleigh-Taylor instability. <i>Theoretical and Computational Fluid Dynamics</i> , 2016 , 30, 469-483	2.3	4
43	Numerical modeling of convective heat transfer of thermally developing nanofluid flows in a horizontal microtube. <i>International Journal of Thermal Sciences</i> , 2016 , 109, 54-69	4.1	24
42	Prediction of fatigue response of composite structures by monitoring the strain energy release rate with embedded fiber Bragg gratings. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 17-27	2.3	17
41	An experimental study on the effect of length and orientation of embedded FBG sensors on the signal properties under fatigue loading. <i>Science and Engineering of Composite Materials</i> , 2016 , 23, 711-719	1.5	2
40	Nano-engineered design and manufacturing of high-performance epoxy matrix composites with carbon fiber/selectively integrated graphene as multi-scale reinforcements. <i>RSC Advances</i> , 2016 , 6, 9495-9506	3.7	47
39	Monitoring Poisson's Ratio Degradation of FRP Composites under Fatigue Loading Using Biaxially Embedded FBG Sensors. <i>Materials</i> , 2016 , 9,	3.5	9
38	Elastic properties of coiled carbon nanotube reinforced nanocomposite: A finite element study. <i>Materials and Design</i> , 2016 , 109, 123-132	8.1	23
37	Design and fabrication of multi-walled hollow nanofibers by triaxial electrospinning as reinforcing agents in nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 1273-1286	2.9	27
36	An incompressible smoothed particle hydrodynamics method for the motion of rigid bodies in fluids. <i>Journal of Computational Physics</i> , 2015 , 297, 207-220	4.1	42
35	Design and fabrication of hollow and filled graphene-based polymeric spheres via core-shell electrospaying. <i>RSC Advances</i> , 2015 , 5, 91147-91157	3.7	19
34	Repeated self-healing of nano and micro scale cracks in epoxy based composites by tri-axial electrospun fibers including different healing agents. <i>RSC Advances</i> , 2015 , 5, 73133-73145	3.7	46
33	Convective heat transfer and second law analysis of non-Newtonian fluid flows with variable thermophysical properties in circular channels. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 60, 21-31	5.8	18
32	Rational design and direct fabrication of multi-walled hollow electrospun fibers with controllable structure and surface properties. <i>European Polymer Journal</i> , 2015 , 62, 66-76	5.2	26
31	OS7-4 Investigation of Carbon Fiber Reinforced Composites in Room Temperature and Elevated Temperature Conditions Using Embedded Fiber Bragg Grating Sensors(Stress and strain measurement I,OS7 Stress and strain measurement,MEASUREMENT METHODS). <i>The Abstracts of OS7-4 Investigation of Carbon Fiber Reinforced Composites in Room Temperature and Elevated Temperature Conditions Using Embedded Fiber Bragg Grating Sensors(Stress and strain measurement I,OS7 Stress and strain measurement,MEASUREMENT METHODS)</i> . <i>The Abstracts of OS7-4 Investigation of Carbon Fiber Reinforced Composites in Room Temperature and Elevated Temperature Conditions Using Embedded Fiber Bragg Grating Sensors(Stress and strain measurement I,OS7 Stress and strain measurement,MEASUREMENT METHODS)</i>	0	
30	Numerical simulation of wall bounded and electrically excited Rayleigh-Taylor instability using incompressible smoothed particle hydrodynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 460, 60-70	5.1	40
29	A numerical investigation into the correction algorithms for SPH method in modeling violent free surface flows. <i>International Journal of Mechanical Sciences</i> , 2014 , 79, 56-65	5.5	44
28	Heat transfer characteristics of plug flows with temperature-jump boundary conditions in parallel-plate channels and concentric annuli. <i>International Journal of Thermal Sciences</i> , 2014 , 84, 252-259	4.1	11
27	Experimental study on the rheology of anisotropic, flocculated and low volume fraction colloids 2014 , 26, 105-116		8

26	Fabrication and Morphological Investigation of Multi-walled Electrospun Polymeric Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1621, 119-126		4
25	Simulation of single mode Rayleigh-Taylor instability by SPH method. <i>Computational Mechanics</i> , 2013 , 51, 699-715	4	75
24	Numerical simulation of single droplet dynamics in three-phase flows using ISPH. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 525-536	2.7	39
23	A smoothed particle hydrodynamics study on the electrohydrodynamic deformation of a droplet suspended in a neutrally buoyant Newtonian fluid. <i>Computational Mechanics</i> , 2013 , 52, 693-707	4	44
22	Dielectric response of fully and partially depleted ferroelectric thin films and inversion of the thickness effect. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 125301	3	7
21	Numerical investigation of Newtonian and non-Newtonian multiphase flows using ISPH method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 254, 99-113	5.7	98
20	Study of Local and Transient Buckling in Glass Fiber Reinforced Composite Using Fiber Bragg Grating. <i>Key Engineering Materials</i> , 2013 , 543, 346-351	0.4	
19	Modeling Die Swell of Second-Order Fluids Using Smoothed Particle Hydrodynamics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013 , 135,	2.1	10
18	A robust weakly compressible SPH method and its comparison with an incompressible SPH. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 89, 939-956	2.4	118
17	Ferrofluid actuation with varying magnetic fields for micropumping applications. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 683-694	2.8	32
16	An Experimental Study on the Process Monitoring of Resin Transfer Molded Composite Structures Using Fiber Optic Sensors. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2012 , 134,	3.3	16
15	Simulation of Rayleigh-Taylor instability by Smoothed Particle Hydrodynamics: Advantages and limitations 2012 ,		1
14	Improved Incompressible Smoothed Particle Hydrodynamics method for simulating flow around bluff bodies. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 1008-1020	5.7	93
13	Numerical modeling of Kelvin-Helmholtz instability using smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 87, 988-1006	2.4	47
12	Coupling of Defect Fields to Domains and Phase Transition Characteristics of Ferroelectric Thin Films with Charged Defects. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1292, 15		
11	Bluff-Body Simulation by SPH Method With Relatively High Reynolds Number in Laminar Flow Regime 2010 ,		1
10	Liquid Phase Diffusion Growth of SiGe Single Crystals under Magnetic Fields. <i>ECS Transactions</i> , 2009 , 16, 135-146	1	8
9	SPH with the multiple boundary tangent method. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 77, 1416-1438	2.4	110

8	Optical properties of SixGe1-x single crystals grown by liquid phase diffusion. <i>Materials Science in Semiconductor Processing</i> , 2009 , 12, 146-150	4.3	1
7	Formation Control of Multiple Robots Using Parametric and Implicit Representations. <i>Lecture Notes in Computer Science</i> , 2008 , 558-565	0.9	5
6	Modeling Transient Heat Transfer Using SPH and Implicit Time Integration. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2007 , 51, 1-23	1.3	46
5	A numerical simulation study for the effect of magnetic fields in liquid phase diffusion growth of SiGe single crystals. <i>Journal of Crystal Growth</i> , 2006 , 291, 497-511	1.6	23
4	Growth of bulk SiGe single crystals by liquid phase diffusion. <i>Journal of Crystal Growth</i> , 2005 , 280, 151-160	6.0	62
3	A continuum model for the Liquid Phase Diffusion growth of bulk SiGe single crystals. <i>International Journal of Engineering Science</i> , 2005 , 43, 1059-1080	5.7	29
2	Damage growth and failure detection in hybrid fiber composites using experimental in-situ optical strain measurements and smoothing element analysis. <i>International Journal of Damage Mechanics</i> , 2005 , 105678952110451	3.2	10451
1	Polyoxazoline-modified graphene oxides with improved water and epoxy resin dispersibility and stability towards composite applications. <i>Journal of Applied Polymer Science</i> , 2006 , 52406	2.9	1