

Mehmet Yildiz

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7959700/mehmet-yildiz-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
114	SPH with the multiple boundary tangent method. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 77, 1416-1438	2.4	110
113	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
112	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
111	Simulation of single mode Rayleigh-Taylor instability by SPH method. <i>Computational Mechanics</i> , 2013 , 51, 699-715	4	75
110	Growth of bulk SiGe single crystals by liquid phase diffusion. <i>Journal of Crystal Growth</i> , 2005 , 280, 151-160	6	62
109	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
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	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
99	Three dimensional shape and stress monitoring of bulk carriers based on iFEM methodology. <i>Ocean Engineering</i> , 2018 , 147, 256-267	3.9	38

98	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
97	Topology optimization of cracked structures using peridynamics. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1645-1672	3.5	34
96	Modeling 3D melt electrospinning writing by response surface methodology. <i>Materials and Design</i> , 2018 , 148, 87-95	8.1	33
95	Ferrofluid actuation with varying magnetic fields for micropumping applications. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 683-694	2.8	32
94	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
93	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
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	Elastic properties of coiled carbon nanotube reinforced nanocomposite: A finite element study. <i>Materials and Design</i> , 2016 , 109, 123-132	8.1	23
81	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

80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	Design optimization of thin-walled composite structures based on material and fiber orientation. <i>Composite Structures</i> , 2017 , 176, 1081-1095	5.3	17
72	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
71	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
70	Density-based smoothed particle hydrodynamics methods for incompressible flows. <i>Computers and Fluids</i> , 2019 , 185, 22-33	2.8	17
69	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
68	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
67	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
66	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
65	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
64	Monitoring the Damage State of Fiber Reinforced Composites Using an FBG Network for Failure Prediction. <i>Materials</i> , 2017 , 10,	3.5	14
63	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

62	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
61	Facile Synthesis of Single- and Multi-Layer Graphene/Mn3O4 Integrated 3D Urchin-Shaped Hybrid Composite Electrodes by Core-Shell Electrospinning. <i>ChemNanoMat</i> , 2019 , 5, 792-801	3.5	12
60	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
59	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
58	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
57	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
56	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
55	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
54	Remaining useful life prediction of laminated composite materials using Thermoelastic Stress Analysis. <i>Composite Structures</i> , 2019 , 210, 381-390	5.3	10
53	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
52	Investigation on interlaminar delamination tendency of multidirectional carbon fiber composites. <i>Polymer Testing</i> , 2020 , 90, 106653	4.5	9
51	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
50	Monitoring Poisson's Ratio Degradation of FRP Composites under Fatigue Loading Using Biaxially Embedded FBG Sensors. <i>Materials</i> , 2016 , 9,	3.5	9
49	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
48	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
47	Experimental study on the rheology of anisotropic, flocculated and low volume fraction colloids 2014 , 26, 105-116		8
46	Liquid Phase Diffusion Growth of SiGe Single Crystals under Magnetic Fields. <i>ECS Transactions</i> , 2009 , 16, 135-146	1	8
45	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

44	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
43	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
42	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
41	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
40	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
39	Formation Control of Multiple Robots Using Parametric and Implicit Representations. <i>Lecture Notes in Computer Science</i> , 2008 , 558-565	0.9	5
38	Multi-material topology optimization of structures with discontinuities using Peridynamics. <i>Composite Structures</i> , 2021 , 258, 113345	5.3	5
37	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 , 1099-63622092-465	2.1	4
36	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
35	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
34	A systematic study on numerical simulation of electrified jet printing. <i>Additive Manufacturing</i> , 2017 , 18, 15-21	6.1	4
33	Fabrication and Morphological Investigation of Multi-walled Electrospun Polymeric Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1621, 119-126		4
32	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
31	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
30	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
29	Realtime Localization and Estimation of Loads on Aircraft Wings from Depth Images. <i>Sensors</i> , 2020 , 20,	3.8	3
28	Three-Dimensional Graphene-Based Structures: Production Methods, Properties, and Applications 2019 , 359-387		3
27	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

26	Electrohydrodynamics of a droplet in a highly confined domain: A numerical study. <i>Physics of Fluids</i> , 2020 , 32, 123305	4.4	3
25	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
24	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
23	Isogeometric analysis using peridynamics and XFEM 2018 ,		2
22	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
21	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
20	Polymer Composites Containing Functionalized Nanoparticles and the Environment 2019 , 437-466		2
19	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
18	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
17	Self-Healing Thermosetting Composites: Concepts, Chemistry, and Future Advances 2017 , 121-150		1
16	Optical properties of SixGe1 single crystals grown by liquid phase diffusion. <i>Materials Science in Semiconductor Processing</i> , 2009 , 12, 146-150	4.3	1
15	Simulation of Rayleigh-Taylor instability by Smoothed Particle Hydrodynamics: Advantages and limitations 2012 ,		1
14	Bluff-Body Simulation by SPH Method With Relatively High Reynolds Number in Laminar Flow Regime 2010 ,		1
13	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
12	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
11	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
10	Polyoxazoline-modified graphene oxides with improved water and epoxy resin dispersibility and stability towards composite applications. <i>Journal of Applied Polymer Science</i> , 52406	2.9	1
9	The Effect of Iterative Procedures on the Robustness and Fidelity of Augmented Lagrangian SPH. <i>Symmetry</i> , 2021 , 13, 472	2.7	0

- 8 Damage growth and failure detection in hybrid fiber composites using experimental in-situ optical strain measurements and smoothing element analysis. *International Journal of Damage Mechanics*, 2022, 1056789521, 1-10
- 7 The effect of different tabbing methods on the damage progression and failure of carbon fiber reinforced composite material under tensile loading. *Polymer Testing*, 2022, 111, 107612 4.5 ○
- 6 Design and Development of a Phased Array System for Damage Detection in Structures. *Computational and Experimental Methods in Structures*, 2018, 153-189
- 5 Study of Local and Transient Buckling in Glass Fiber Reinforced Composite Using Fiber Bragg Grating. *Key Engineering Materials*, 2013, 543, 346-351 0.4
- 4 Coupling of Defect Fields to Domains and Phase Transition Characteristics of Ferroelectric Thin Films with Charged Defects. *Materials Research Society Symposia Proceedings*, 2011, 1292, 15
- 3 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). *The Abstracts of ISEM International Conference on Advanced Technology in Experimental Mechanics, Asian Conference*
- 2 Thermo-responsive and shape-morphing CF/GF composite skin: Full-field experimental measurement, theoretical prediction, and finite element analysis. *Thin-Walled Structures*, 2021, 160, 106874
- 1 Effect of nanomaterials/nanofibers on the structure and properties of fiber-reinforced composites 2020, 157-182