

# Bin Han

## List of Publications by Year in descending order

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45  
papers

1,795  
citations

361413

20  
h-index

276875

41  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired engineering of honeycomb structure – Using nature to inspire human innovation. <i>Progress in Materials Science</i> , 2015, 74, 332-400.	32.8	501
2	3d printed continuous fiber reinforced composite auxetic honeycomb structures. <i>Composites Part B: Engineering</i> , 2020, 187, 107858.	12.0	161
3	Honeycomb–corrugation hybrid as a novel sandwich core for significantly enhanced compressive performance. <i>Materials and Design</i> , 2016, 93, 271-282.	7.0	125
4	Recent advances in hybrid lattice-cored sandwiches for enhanced multifunctional performance. <i>Extreme Mechanics Letters</i> , 2017, 10, 58-69.	4.1	87
5	Graded square honeycomb as sandwich core for enhanced mechanical performance. <i>Materials and Design</i> , 2016, 89, 642-652.	7.0	71
6	Free vibration analysis of sandwich beams with honeycomb-corrugation hybrid cores. <i>Composite Structures</i> , 2017, 171, 335-344.	5.8	64
7	Free vibration and buckling of foam-filled composite corrugated sandwich plates under thermal loading. <i>Composite Structures</i> , 2017, 172, 173-189.	5.8	55
8	Design optimization of foam-reinforced corrugated sandwich beams. <i>Composite Structures</i> , 2015, 130, 51-62.	5.8	54
9	A modified Johnson-Cook model considering strain softening of A356 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 789, 139612.	5.6	46
10	Metallic tube-reinforced aluminum honeycombs: Compressive and bending performances. <i>Composites Part B: Engineering</i> , 2019, 171, 192-203.	12.0	44
11	Ballistic performance of UHMWPE laminated plates and UHMWPE encapsulated aluminum structures: Numerical simulation. <i>Composite Structures</i> , 2020, 252, 112686.	5.8	41
12	Axial compressive collapse of ultralight corrugated sandwich cylindrical shells. <i>Materials and Design</i> , 2018, 160, 325-337.	7.0	40
13	Dynamic response of clamped sandwich beams with fluid-filled corrugated cores. <i>International Journal of Impact Engineering</i> , 2020, 139, 103533.	5.0	38
14	Collapse mechanisms of metallic sandwich structures with aluminum foam-filled corrugated cores. <i>Journal of Mechanics of Materials and Structures</i> , 2014, 9, 397-425.	0.6	36
15	Out-of-plane compression of Ti-6Al-4V sandwich panels with corrugated channel cores. <i>Materials and Design</i> , 2018, 137, 463-472.	7.0	36
16	Performance enhancement of sandwich panels with honeycomb–corrugation hybrid core. <i>Theoretical and Applied Mechanics Letters</i> , 2016, 6, 54-59.	2.8	28
17	Effects of sand filling on the dynamic response of corrugated core sandwich beams under foam projectile impact. <i>Composites Part B: Engineering</i> , 2020, 197, 108135.	12.0	27
18	Enhanced vibration and damping characteristics of novel corrugated sandwich panels with polyurea-metal laminate face sheets. <i>Composite Structures</i> , 2020, 251, 112591.	5.8	25

#	ARTICLE	IF	CITATIONS
19	Enhanced ballistic resistance of multilayered cross-ply UHMWPE laminated plates. <i>International Journal of Impact Engineering</i> , 2022, 159, 104035.	5.0	25
20	Influence of prestress on ballistic performance of bi-layer ceramic composite armors: Experiments and simulations. <i>Composite Structures</i> , 2019, 227, 111258.	5.8	23
21	Analytical design of effective thermal conductivity for fluid-saturated prismatic cellular metal honeycombs. <i>Theoretical and Applied Mechanics Letters</i> , 2016, 6, 69-75.	2.8	21
22	Optimal design of metallic corrugated sandwich panels with polyurea-metal laminate face sheets for simultaneous vibration attenuation and structural stiffness. <i>Composite Structures</i> , 2021, 256, 112994.	5.8	21
23	Confinement effects on compressive and ballistic performance of ceramics: a review. <i>International Materials Reviews</i> , 2021, 66, 287-312.	19.3	19
24	Enhancement by Metallic Tube Filling of the Mechanical Properties of Electromagnetic Wave Absorbent Polymethacrylimide Foam. <i>Polymers</i> , 2019, 11, 372.	4.5	18
25	Buckling of a standing corrugated sandwich plate subjected to body force and terminal load. <i>Thin-Walled Structures</i> , 2018, 127, 688-699.	5.3	17
26	Free vibration behavior of Ti-6Al-4V sandwich beams with corrugated channel cores: Experiments and simulations. <i>Thin-Walled Structures</i> , 2019, 135, 329-340.	5.3	17
27	A refined quasi-3D zigzag beam theory for free vibration and stability analysis of multilayered composite beams subjected to thermomechanical loading. <i>Composite Structures</i> , 2018, 204, 620-633.	5.8	15
28	Crashworthiness of hierarchical truncated conical shells with corrugated cores. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106171.	6.7	15
29	Axial crushing of ultralight all-metallic truncated conical sandwich shells with corrugated cores. <i>Thin-Walled Structures</i> , 2019, 140, 318-330.	5.3	14
30	Enhanced bi-layer mosaic armor: experiments and simulation. <i>Ceramics International</i> , 2020, 46, 23854-23866.	4.8	14
31	Free vibration and axial compression of all-metallic cylindrical and truncated conical sandwich shells with corrugated cores. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 2274-2295.	3.5	12
32	Enhancement of UHMWPE encapsulation on the ballistic performance of bi-layer mosaic armors. <i>Composites Part B: Engineering</i> , 2021, 221, 109023.	12.0	12
33	Normal and oblique projectile impact of double-layered pyramidal lattice truss structures filled with ceramic insertions. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 1136-1156.	4.2	10
34	Stability and initial post-buckling of a standing sandwich beam under terminal force and self-weight. <i>Archive of Applied Mechanics</i> , 2016, 86, 1063-1082.	2.2	9
35	Three-point bending of honeycomb sandwich beams with facesheet perforations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 667-675.	3.4	8
36	Oblique crushing of truncated conical sandwich shell with corrugated core. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2458-2471.	2.6	8

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37	Crashworthiness of foam filled truncated conical sandwich shells with corrugated cores. <i>Thin-Walled Structures</i> , 2022, 179, 109677.	5.3	8
38	A modified Hansel-Spittel constitutive equation of Ti-6Al-4V during cogging process. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162387.	5.5	7
39	Creep of closed-cell aluminum foams: Effects of imperfections and predictive modeling. <i>Materials and Design</i> , 2018, 156, 229-241.	7.0	6
40	Strength optimization of ultralight corrugated-channel-core sandwich panels. <i>Science China Technological Sciences</i> , 2019, 62, 1467-1477.	4.0	5
41	Dual-level stress plateaus in honeycombs subjected to impact loading: perspectives from bucklewaves, buckling and cell-wall progressive folding. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 70-77.	3.4	5
42	Effects of Aluminum Foam Filling on Compressive Strength and Energy Absorption of Metallic Y-Shape Cored Sandwich Panel. <i>Metals</i> , 2020, 10, 1670.	2.3	3
43	Temperature Effects on the Compressive Behaviors of Closed-Cell Copper Foams Prepared by Powder Metallurgy. <i>Materials</i> , 2021, 14, 6405.	2.9	2
44	Energy Absorption of All-Metallic Corrugated Sandwich Cylindrical Shells Subjected to Axial Compression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	2
45	Material characteristics evaluation for DC04-welded tube hydroforming. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 7075-7088.	3.0	0