

Vadim V Silberschmidt

List of Publications by Year in descending order

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560
papers

10,663
citations

50566

48
h-index

84171

75
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577
all docs

577
docs citations

577
times ranked

7917
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling indentation of human lower-limb soft tissue: simulation parameters and their effects. <i>Continuum Mechanics and Thermodynamics</i> , 2023, 35, 939-955.	1.4	2
2	Bulk-Material Bond Strength Exists in Extrusion Additive Manufacturing for a Wide Range of Temperatures, Speeds, and Layer Times. <i>3D Printing and Additive Manufacturing</i> , 2023, 10, 514-523.	1.4	2
3	Personalised nitinol stent for focal plaques: Design and evaluation. <i>Journal of Biomechanics</i> , 2022, 130, 110873.	0.9	5
4	Numerical modelling of size effects in micro-cutting of f.c.c. single crystal: Influence of strain gradients. <i>Journal of Manufacturing Processes</i> , 2022, 74, 511-519.	2.8	3
5	Stability and mechanical performance of collagen films under different environmental conditions. <i>Polymer Degradation and Stability</i> , 2022, 197, 109853.	2.7	10
6	Fracture behaviour and toughening mechanisms of dry and wet collagen. <i>Acta Biomaterialia</i> , 2022, 142, 174-184.	4.1	10
7	Micro-texturing of polymer surfaces using lasers: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 103-135.	1.5	41
8	Mechanics of fibrous networks: Basic behaviour. , 2022, , 1-12.		0
9	Deformation and damage of random fibrous networks. , 2022, , 203-219.		0
10	Numerical models of random fibrous networks. , 2022, , 113-143.		1
11	Exploring the Mechanical Properties and Performance of Type-I Collagen at Various Length Scales: A Progress Report. <i>Materials</i> , 2022, 15, 2753.	1.3	14
12	Challenges and issues in continuum modelling of tribology, wear, cutting and other processes involving high-strain rate plastic deformation of metals. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105185.	1.5	6
13	Dynamic Crack Propagation along Elastic Interfaces in Double Cantilever Beams under High Loading Rates. <i>Journal of Aerospace Engineering</i> , 2022, 35, .	0.8	1
14	Hybrid-hybrid machining of SiC-reinforced aluminium metal matrix composite. <i>Manufacturing Letters</i> , 2022, 32, 63-66.	1.1	15
15	Failure behaviour of human trabecular bone. <i>Procedia Structural Integrity</i> , 2022, 37, 257-262.	0.3	3
16	Ultrasonically assisted turning of micro-SiCp/Al 2124 composite. <i>Procedia Structural Integrity</i> , 2022, 37, 282-291.	0.3	5
17	Interfacial damage in flexible electronics with collagen substrate: effect of environmental conditions. <i>Procedia Structural Integrity</i> , 2022, 37, 131-138.	0.3	0
18	Thermal debonding in compacted graphite iron: effect of interaction of graphite inclusions. <i>Procedia Structural Integrity</i> , 2022, 37, 209-216.	0.3	1

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19	Ultrasonically Assisted Cutting of Histological Sections for Reducing the Environmental and Financial Impact of Microtomy. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	1.9	0
20	Fracture mechanisms of additively manufactured polylactide: Effect of in vitro hydrolytic degradation. Engineering Fracture Mechanics, 2022, 269, 108572.	2.0	3
21	Thermal debonding of inclusions in compacted graphite iron: effect of matrix phases. Engineering Failure Analysis, 2022, , 106476.	1.8	5
22	Simulation of buckling-driven progressive damage in composite wind turbine blade under extreme wind loads. Engineering Failure Analysis, 2022, 140, 106574.	1.8	8
23	Assessment of dynamic mode-I delamination driving force in double cantilever beam tests for fiber-reinforced polymer composite and adhesive materials. Composites Science and Technology, 2022, , 109632.	3.8	1
24	Algorithm to determine orientation distribution function from microscopic images of fibrous networks: Validation with X-ray microtomography. Micron, 2022, 160, 103321.	1.1	2
25	CONVEX (CONTinuously Varied EXtrusion): A new scale of design for additive manufacturing. Additive Manufacturing, 2021, 37, 101576.	1.7	10
26	High-impact exercise stimulated localised adaptation of microarchitecture across distal tibia in postmenopausal women. Osteoporosis International, 2021, 32, 907-919.	1.3	12
27	ZigZagZ: Improving mechanical performance in extrusion additive manufacturing by nonplanar toolpaths. Additive Manufacturing, 2021, 38, 101715.	1.7	5
28	Anisotropic mechanical behaviour of calendered nonwoven fabrics: Strain-rate dependency. Journal of Composite Materials, 2021, 55, 1783-1798.	1.2	5
29	Microstructural and Mechanical Characterization of Thin-Walled Tube Manufactured with Selective Laser Melting for Stent Application. Journal of Materials Engineering and Performance, 2021, 30, 696-710.	1.2	24
30	Analytical prediction of shear angle and frictional behaviour in vibration-assisted cutting. Journal of Manufacturing Processes, 2021, 62, 37-46.	2.8	17
31	Mechanical performance of 3D printed polylactide during degradation. Additive Manufacturing, 2021, 38, 101764.	1.7	10
32	A computational study of fatigue resistance of nitinol stents subjected to walk-induced femoropopliteal artery motion. Journal of Biomechanics, 2021, 118, 110295.	0.9	10
33	Printability and mechanical performance of biomedical PDMS-PEEK composites developed for material extrusion. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104291.	1.5	14
34	Damage in extrusion additive manufactured biomedical polymer: Effects of testing direction and environment during cyclic loading. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104397.	1.5	1
35	Analytical corrections for double-cantilever beam tests. International Journal of Fracture, 2021, 229, 269-276.	1.1	8
36	Impact of polyurea-coated metallic targets: Computational framework. Composite Structures, 2021, 267, 113893.	3.1	12

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37	Thermal performance of additively manufactured polymer lattices. Journal of Building Engineering, 2021, 39, 102243.	1.6	25
38	Remodelling of trabecular bone in human distal tibia: A model based on an in-vivo HR-pQCT study. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104506.	1.5	4
39	MaTrEx AM: A new hybrid additive manufacturing process to selectively control mechanical properties. Additive Manufacturing, 2021, 47, 102337.	1.7	5
40	A numerical study on influence of strain gradients on lattice rotation in micro-machining of a single crystal. Challenge Journal of Structural Mechanics, 2021, 7, 117.	0.2	0
41	Pioneering personalised design of femoropopliteal nitinol stents. Materials Science and Engineering C, 2021, 130, 112462.	3.8	6
42	Theory of dynamic mode-II delamination in end-notched flexure tests. Composite Structures, 2021, 274, 114332.	3.1	4
43	Oblique penetration mechanism of hybrid composite laminates. Science and Engineering of Composite Materials, 2021, 28, 568-578.	0.6	0
44	Discussion on the microscale geometry as the dominant factor for strength anisotropy in material extrusion additive manufacturing. Additive Manufacturing, 2021, 48, 102390.	1.7	2
45	Simulations of Machining Processes at Small Spatio-temporal Scales. , 2021, , 241-254.		0
46	Wound contraction under negative pressure therapy measured with digital image correlation and finite-element analysis in tissue phantoms and wound models. Medical Engineering and Physics, 2021, 98, 104-114.	0.8	0
47	Dynamic interfacial fracture of a double cantilever beam. Engineering Fracture Mechanics, 2020, 225, 106246.	2.0	13
48	Deformation and damage of random fibrous networks. International Journal of Solids and Structures, 2020, 184, 233-247.	1.3	17
49	Ice vs. steel: Ballistic impact of woven carbon/epoxy composites. Part I " Deformation and damage behaviour. Engineering Fracture Mechanics, 2020, 225, 106270.	2.0	7
50	Production of high-quality extremely-thin histological sections by ultrasonically assisted cutting. Journal of Materials Processing Technology, 2020, 276, 116403.	3.1	6
51	Finite element evaluation of artery damage in deployment of polymeric stent with pre- and post-dilation. Biomechanics and Modeling in Mechanobiology, 2020, 19, 47-60.	1.4	16
52	Experimental investigation on the effect of drill quality on the performance of bone drilling. Biomedizinische Technik, 2020, 65, 113-120.	0.9	11
53	Effect of environment on mechanical properties of 3D printed polylactide for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103510.	1.5	40
54	Ice vs. steel: Ballistic impact of woven carbon/epoxy composites. Part II " Numerical modelling. Engineering Fracture Mechanics, 2020, 225, 106297.	2.0	9

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55	Mechanism of material removal in orthogonal cutting of cortical bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103618.	1.5	36
56	Mechanistic evaluation of long-term in-stent restenosis based on models of tissue damage and growth. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1425-1446.	1.4	21
57	Fracture of 3D-printed polymers: Crucial role of filament-scale geometric features. <i>Engineering Fracture Mechanics</i> , 2020, 224, 106818.	2.0	45
58	Dynamic delamination on elastic interface. <i>Composite Structures</i> , 2020, 234, 111670.	3.1	10
59	Finite element simulations of conventional and ultrasonically assisted turning processes with plane and textured cutting inserts. <i>Journal of Micromanufacturing</i> , 2020, 3, 54-68.	0.6	2
60	Mechanical modification of bacterial cellulose hydrogel under biaxial cyclic tension. <i>Mechanics of Materials</i> , 2020, 142, 103272.	1.7	9
61	Modelling strain localization in Ti-6Al-4V at high loading rate: a phenomenological approach. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190105.	1.6	2
62	Dry vs. wet: Properties and performance of collagen films. Part I. Mechanical behaviour and strain-rate effect. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 111, 103983.	1.5	19
63	Editorial: 22nd European Conference on Fracture (ECF 22). <i>International Journal of Fatigue</i> , 2020, 139, 105658.	2.8	0
64	Comprehensive experimental analysis and sustainability assessment of machining Nimonic 90 using ultrasonic-assisted turning facility. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 1447-1462.	1.5	26
65	Machining in monocrystals. , 2020, , 243-267.		0
66	Microstructural changes in machining. , 2020, , 269-296.		0
67	Modeling of friction in manufacturing processes. , 2020, , 415-444.		8
68	Delamination propagation under high loading rate. <i>Composite Structures</i> , 2020, 253, 112734.	3.1	10
69	Dry vs. wet: Properties and performance of collagen films. Part II. Cyclic and time-dependent behaviours. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104040.	1.5	12
70	Printed hydrogel nanocomposites: fine-tuning nanostructure for anisotropic mechanical and conductive properties. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 315-324.	9.9	44
71	A brief review on the mechanical behavior of nonwoven fabrics. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502097019.	0.5	8
72	Fracture of 3D-printed micro-tensile specimens: filament-scale geometry-induced anisotropy. <i>Procedia Structural Integrity</i> , 2020, 28, 591-601.	0.3	5

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73	Theory of dynamic mode-II delamination in end-loaded split tests. Composites Part C: Open Access, 2020, 3, 100055.	1.5	3
74	Interlayer bonding has bulk-material strength in extrusion additive manufacturing: New understanding of anisotropy. Additive Manufacturing, 2020, 34, 101297.	1.7	20
75	Shear band widening mechanism in Ti-6Al-4V under high strain rate deformation. Journal of Materials Research, 2020, 35, 1623-1634.	1.2	3
76	Mechanics of ultrasonically assisted drilling. , 2020, , 229-241.		0
77	Effect of microstructure on porosity of random fibrous networks. Journal of the Textile Institute, 2020, 111, 1713-1723.	1.0	3
78	Structural integrity analysis and damage assessment of a long composite wind turbine blade under extreme loading. Composite Structures, 2020, 246, 112426.	3.1	24
79	Numerical study of crack initiation and growth in human cortical bone: Effect of micro-morphology. Engineering Fracture Mechanics, 2020, 232, 107051.	2.0	14
80	Size effect in flexural behaviour of unidirectional GFRP composites. Journal of Mechanical Science and Technology, 2020, 34, 5053-5061.	0.7	9
81	Improvements of material removal in cortical bone via impact cutting method. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 108, 103791.	1.5	5
82	Patient-specific modelling of stent overlap: Lumen gain, tissue damage and in-stent restenosis. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103836.	1.5	12
83	Damage in extrusion additive manufactured parts: effect of environment and cyclic loading. Procedia Structural Integrity, 2020, 28, 452-457.	0.3	4
84	Fracture Behaviour of Collagen: Effect of Environment. Procedia Structural Integrity, 2020, 28, 843-849.	0.3	3
85	Polyurea-coated glass-fibre-reinforced laminate under high-speed impact: experimental study. Procedia Structural Integrity, 2020, 28, 1572-1578.	0.3	3
86	Intelligent Manipulator with Flexible Link and Joint: Modeling and Vibration Control. Shock and Vibration, 2020, 2020, 1-15.	0.3	24
87	Experimental and Numerical Methods to Analyse Deformation and Damage in Random Fibrous Networks. Advanced Structured Materials, 2020, , 151-174.	0.3	0
88	Trabecular bone remodelling: finite-element simulation. Procedia Structural Integrity, 2020, 28, 577-583.	0.3	2
89	High-Speed Mode-I Delamination. Structural Integrity, 2020, , 3-8.	0.8	0
90	Fractal approaches in mechanics of jointed rocks. , 2020, , 83-86.		0

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91	Interfacial debonding in compacted graphite iron: effect of thermal loading. <i>Procedia Structural Integrity</i> , 2020, 28, 1286-1294.	0.3	9
92	Ballistic performance of polyurea-coated thin aluminium plates: numerical study. <i>Procedia Structural Integrity</i> , 2020, 28, 1258-1266.	0.3	0
93	Scale invariance in stochastic fracture of rocks. , 2020, , 49-54.		0
94	Ultrasonically assisted drilling in marble. <i>Journal of Sound and Vibration</i> , 2019, 460, 114880.	2.1	8
95	A crystal-plasticity model of extruded AM30 magnesium alloy. <i>Computational Materials Science</i> , 2019, 170, 109140.	1.4	11
96	Failure behaviour of short-fibre-reinforced PBT composites: Effect of strain rate. <i>Engineering Failure Analysis</i> , 2019, 105, 466-476.	1.8	18
97	Mesoscale damage analysis of needle-punched carbon/carbon composite considering randomness of inherent defects. <i>Composites Science and Technology</i> , 2019, 183, 107821.	3.8	9
98	Damage and damping of short-glass-fibre-reinforced PBT composites under dynamic conditions: Effect of matrix behaviour. <i>Composite Structures</i> , 2019, 226, 111286.	3.1	17
99	Nonwovensâ€™ Structure-process-property relationships. , 2019, , 109-143.		0
100	Hybrid machining of metal-matrix composite. <i>Procedia CIRP</i> , 2019, 82, 184-189.	1.0	28
101	Experimental Study of Synthesized Co-polymer for Stent Application. <i>Procedia Structural Integrity</i> , 2019, 15, 55-59.	0.3	3
102	Mechanical Performance of Self-expandable Nitinol Stent with Lesion-specific Design. <i>Procedia Structural Integrity</i> , 2019, 15, 24-27.	0.3	2
103	Finite Element Modelling of Stent Deployment in a Patient-specific Coronary Artery. <i>Procedia Structural Integrity</i> , 2019, 15, 28-32.	0.3	1
104	Characterisation of Additively Manufactured Metallic Stents. <i>Procedia Structural Integrity</i> , 2019, 15, 41-45.	0.3	5
105	Characterisation of Mechanical Properties of Polymeric Stent using Nanoindentation. <i>Procedia Structural Integrity</i> , 2019, 15, 51-54.	0.3	0
106	Tensile properties of 3D multi-layer wrapping braided composite: Progressive damage analysis. <i>Composites Part B: Engineering</i> , 2019, 176, 107334.	5.9	21
107	Characterising variability and regional correlations of microstructure and mechanical competence of human tibial trabecular bone: An in-vivo HR-pQCT study. <i>Bone</i> , 2019, 121, 139-148.	1.4	19
108	Machinability of natural-fibre-reinforced polymer composites: Conventional vs ultrasonically-assisted machining. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 188-195.	3.8	58

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109	Simulation of Crack Propagation Under Mixed-Mode Loading. , 2019, , 1465-1502.		0
110	Mechanical and chemical characterisation of bioresorbable polymeric stent over two-year in vitro degradation. Journal of Biomaterials Applications, 2019, 34, 61-73.	1.2	12
111	SPH-BEM simulation of underwater explosion and bubble dynamics near rigid wall. Science China Technological Sciences, 2019, 62, 1082-1093.	2.0	17
112	Quantifying the mechanical properties of polymeric tubing and scaffold using atomic force microscopy and nanoindentation. Polymer Engineering and Science, 2019, 59, 1084-1091.	1.5	1
113	Enhanced machinability of SiC-reinforced metal-matrix composite with hybrid turning. Journal of Materials Processing Technology, 2019, 268, 149-161.	3.1	86
114	Polydimethylsiloxane and poly(ether) ether ketone functionally graded composites for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 93, 130-142.	1.5	23
115	A review: microstructure and properties of tin-silver-copper lead-free solder series for the applications of electronics. Soldering and Surface Mount Technology, 2019, 32, 115-126.	0.9	16
116	When superhydrophobic coatings are icephobic: Role of surface topology. Surface and Coatings Technology, 2019, 358, 207-214.	2.2	76
117	Multi-objective optimization of ultrasonic-assisted magnetic abrasive finishing process. International Journal of Advanced Manufacturing Technology, 2019, 101, 1661-1670.	1.5	18
118	In-situ SEM study of slip-controlled short-crack growth in single-crystal nickel superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 564-572.	2.6	47
119	Low-cycle fatigue of single crystal nickel-based superalloy “ mechanical testing and TEM characterisation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 538-547.	2.6	43
120	Theoretical Analysis on Needle-Punched Carbon/Carbon Composites. Applied Composite Materials, 2019, 26, 805-816.	1.3	6
121	Coupling crystal plasticity and continuum damage mechanics for creep assessment in Cr-based power-plant steel. Mechanics of Materials, 2019, 130, 29-38.	1.7	25
122	Improvements of machinability of aerospace-grade Inconel alloys with ultrasonically assisted hybrid machining. International Journal of Advanced Manufacturing Technology, 2019, 101, 1143-1156.	1.5	30
123	Modeling of finishing force and torque in ultrasonic-assisted magnetic abrasive finishing process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 411-425.	1.5	14
124	Deformation response and microstructural evolution of as-cast Mg alloys AM30 and AM50 during hot compression. International Journal of Materials Research, 2019, 110, 524-533.	0.1	4
125	Small-Scale Machining Simulations. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 349-362.	0.4	0
126	Initiation and growth of short cracks in a nickel-based single crystal superalloy. , 2019, , 388-391.		0

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127	Ultrasonic Assisted Turning: A Comparative Study of Surface Integrity. Lecture Notes on Multidisciplinary Industrial Engineering, 2018, , 337-360.	0.4	0
128	Experimental studies of shear bands in Zr-Cu metallic glass. Journal of Non-Crystalline Solids, 2018, 484, 40-48.	1.5	14
129	Discontinuous Finite Element Model of Hydrogels. , 2018, , 3-16.		1
130	Numerical Simulation of Bone Cutting. , 2018, , 187-201.		7
131	Microstructural evolution of 96.5Snâ€“3Agâ€“0.5Cu lead free solder reinforced with nickel-coated graphene reinforcements under large temperature gradient. Journal of Materials Science: Materials in Electronics, 2018, 29, 5253-5263.	1.1	15
132	Simulation of Crack Propagation Under Mixed-Mode Loading. , 2018, , 1-38.		0
133	3D DDD modelling of dislocationâ€“precipitate interaction in a nickel-based single crystal superalloy under cyclic deformation. Philosophical Magazine, 2018, 98, 1550-1575.	0.7	10
134	Experimental Study on the Effect of Point Angle on Force and Temperature in Ultrasonically Assisted Bone Drilling. Journal of Medical and Biological Engineering, 2018, 38, 236-243.	1.0	19
135	Indentation in single-crystal 6H silicon carbide: Experimental investigations and finite element analysis. International Journal of Mechanical Sciences, 2018, 144, 858-864.	3.6	20
136	A framework for design and optimization of tapered composite structures. Part II: Enhanced design framework with a global blending model. Composite Structures, 2018, 188, 531-552.	3.1	9
137	Transparent icephobic coatings using bio-based epoxy resin. Materials and Design, 2018, 140, 516-523.	3.3	49
138	Effect of hybrid machining on structural integrity of aerospace-grade materials. Procedia CIRP, 2018, 77, 163-166.	1.0	3
139	Ultrasonically assisted drilling of aerospace CFRP/Ti stacks. Procedia CIRP, 2018, 77, 383-386.	1.0	27
140	Experimental and Morphological Investigations of Fracture Behavior of PBT/TPEE. Procedia Structural Integrity, 2018, 13, 511-516.	0.3	2
141	Dynamic interfacial fracture of a thin-layered structure. Procedia Structural Integrity, 2018, 13, 613-618.	0.3	4
142	Interfacial fracture of 3D-printed bioresorbable polymers. Procedia Structural Integrity, 2018, 13, 625-630.	0.3	8
143	Numerical and analytical model of long tubular bones with anisotropic distribution of elastic properties. Procedia Structural Integrity, 2018, 13, 636-641.	0.3	0
144	Computational Evaluation of Artery Damage in Stent Deployment. Procedia Structural Integrity, 2018, 13, 187-191.	0.3	4

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145	Relations between Parameters of Fracture Processes on Different Scale Levels. Doklady Physics, 2018, 63, 459-461.	0.2	0
146	Ultrasonically assisted drilling of rocks. AIP Conference Proceedings, 2018, , .	0.3	4
147	A diffusion-based approach for modelling crack tip behaviour under fatigue-oxidation conditions. International Journal of Fracture, 2018, 213, 157-170.	1.1	5
148	8.14 Composites Under Dynamic Loads at High Velocities. , 2018, , 262-285.		5
149	Mechanically Robust Transparent Anti-icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. Advanced Materials Interfaces, 2018, 5, 1800773.	1.9	16
150	Underwater explosion of cylindrical charge near plates: Analysis of pressure characteristics and cavitation effects. International Journal of Impact Engineering, 2018, 121, 91-105.	2.4	41
151	Hybrid machining process: experimental and numerical analysis of hot ultrasonically assisted turning. International Journal of Advanced Manufacturing Technology, 2018, 97, 2173-2192.	1.5	21
152	Damage accumulation in braided textiles-reinforced composites under repeated impacts: Experimental and numerical studies. Composite Structures, 2018, 204, 256-267.	3.1	26
153	Finite Element Modeling and Analysis of Ultrasonically-Assisted Drilling of Bone. , 2018, , .		1
154	Dynamics and Thermodynamics of Fracture Mechanics. , 2018, , 1-6.		0
155	Influence of Tool Material on Forces, Temperature and Surface Quality of Ti-15333 Alloy in CT and UAT. Scientia Iranica, 2018, .	0.3	0
156	Controlled failure warning and mitigation of prematurely failing beam through adhesive. Composite Structures, 2017, 161, 119-131.	3.1	15
157	Damage response of steel plate to underwater explosion: Effect of shaped charge liner. International Journal of Impact Engineering, 2017, 103, 38-49.	2.4	67
158	Linear ultrasonic motor for absolute gravimeter. Ultrasonics, 2017, 77, 88-94.	2.1	34
159	Enhanced gradient crystal-plasticity study of size effects in α^2 -titanium alloy. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 035013.	0.8	4
160	Retardation effects due to overloads in aluminium alloy aeronautical components. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1484-1500.	1.7	4
161	Failure analysis of plain woven glass/epoxy laminates: Comparison of off-axis and biaxial tension loadings. Polymer Testing, 2017, 60, 307-320.	2.3	31
162	Numerical Representation of Multiple Premature Failures in Steel-Plated RC Beams. International Journal of Computational Methods, 2017, 14, 1750035.	0.8	10

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163	Evaluation of the chemical and biomechanical viscoelastic properties of decellularised tracheal scaffolds. <i>Cytotherapy</i> , 2017, 19, S26.	0.3	1
164	Rotary ultrasonic bone drilling: Improved pullout strength and reduced damage. <i>Medical Engineering and Physics</i> , 2017, 41, 1-8.	0.8	40
165	Computational modelling of wounded tissue subject to negative pressure wound therapy following trans-femoral amputation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1819-1832.	1.4	4
166	Assessing stiffness of nanofibres in bacterial cellulose hydrogels: Numerical-experimental framework. <i>Materials Science and Engineering C</i> , 2017, 77, 9-18.	3.8	22
167	Microstructural evolution of Ti6Al4V in ultrasonically assisted cutting: Numerical modelling and experimental analysis. <i>Ultrasonics</i> , 2017, 78, 70-82.	2.1	50
168	Incorporation and evolution of ZrO ₂ nano-particles in Pt-modified aluminide coating for high temperature applications. <i>Surface and Coatings Technology</i> , 2017, 311, 238-247.	2.2	18
169	Temperature-dependent mechanical behaviour of PMMA: Experimental analysis and modelling. <i>Polymer Testing</i> , 2017, 58, 86-95.	2.3	90
170	Impact damage in woven carbon fibre/epoxy laminates: analysis of damage and dynamic strain fields. <i>Procedia Engineering</i> , 2017, 199, 2500-2505.	1.2	6
171	Low cycle fatigue of a directionally solidified nickel-based superalloy: Testing, characterisation and modelling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 503-513.	2.6	18
172	Experimental and computational studies of poly-L-lactic acid for cardiovascular applications: recent progress. <i>Mechanics of Advanced Materials and Modern Processes</i> , 2017, 3, .	2.2	18
173	Braided textile composites for sports protection: Energy absorption and delamination in impact modelling. <i>Materials and Design</i> , 2017, 136, 258-269.	3.3	41
174	Improved analytical prediction of chip formation in orthogonal cutting of titanium alloy Ti6Al4V. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 357-367.	3.6	63
175	Application of Smoothed Particle Hydrodynamics in analysis of shaped-charge jet penetration caused by underwater explosion. <i>Ocean Engineering</i> , 2017, 145, 177-187.	1.9	28
176	Temperature-dependent crystal-plasticity model for magnesium: A bottom-up approach. <i>Mechanics of Materials</i> , 2017, 113, 44-56.	1.7	24
177	Failure analysis of a frangible composite cover: A transient-dynamics study. <i>Journal of Composite Materials</i> , 2017, 51, 2607-2617.	1.2	4
178	Comparison of plane-stress, generalized-plane-strain and 3D FEM elastic-plastic analyses of thick-walled cylinders subjected to radial thermal gradient. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 744-752.	3.6	21
179	Relative behaviour of premature failures in adhesively plated RC beam using controllable and existing parameters. <i>Composite Structures</i> , 2017, 180, 75-87.	3.1	9
180	Micro CT Analysis of Dynamic Damage in Laminates: Impact vs. blast loading. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012077.	0.3	1

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