Vadim V Silberschmidt

List of Publications by Year
in descending order

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561 papers	10,663 citations	44069 48 h-index	74163 75 g-index
577 all docs	577 docs citations	577 times ranked	7073 citing authors

#	Article	IF	Citations
1	Modelling indentation of human lower-limb soft tissue: simulation parameters and their effects. Continuum Mechanics and Thermodynamics, 2023, 35, 939-955.	2.2	2
2	Bulk-Material Bond Strength Exists in Extrusion Additive Manufacturing for a Wide Range of Temperatures, Speeds, and Layer Times. 3D Printing and Additive Manufacturing, 2023, 10, 514-523.	2.9	2
3	Personalised nitinol stent for focal plaques: Design and evaluation. Journal of Biomechanics, 2022, 130, 110873.	2.1	5
4	Numerical modelling of size effects in micro-cutting of f.c.c. single crystal: Influence of strain gradients. Journal of Manufacturing Processes, 2022, 74, 511-519.	5.9	3
5	Stability and mechanical performance of collagen films under different environmental conditions. Polymer Degradation and Stability, 2022, 197, 109853.	5.8	10
6	Fracture behaviour and toughening mechanisms of dry and wet collagen. Acta Biomaterialia, 2022, 142, 174-184.	8.3	10
7	Micro-texturing of polymer surfaces using lasers: a review. International Journal of Advanced Manufacturing Technology, 2022, 120, 103-135.	3.0	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. Materials, 2022, 15, 2753.	2.9	14
12	Challenges and issues in continuum modelling of tribology, wear, cutting and other processes involving high-strain rate plastic deformation of metals. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105185.	3.1	6
13	Dynamic Crack Propagation along Elastic Interfaces in Double Cantilever Beams under High Loading Rates. Journal of Aerospace Engineering, 2022, 35, .	1.4	1
14	Hybrid-hybrid machining of SiC-reinforced aluminium metal matrix composite. Manufacturing Letters, 2022, 32, 63-66.	2.2	15
15	Failure behaviour of human trabecular bone. Procedia Structural Integrity, 2022, 37, 257-262.	0.8	3
16	Ultrasonically assisted turning of micro-SiCp/Al 2124 composite. Procedia Structural Integrity, 2022, 37, 282-291.	0.8	5
17	Interfacial damage in flexible electronics with collagen substrate: effect of environmental conditions. Procedia Structural Integrity, 2022, 37, 131-138.	0.8	0
18	Thermal debonding in compacted graphite iron: effect of interaction of graphite inclusions. Procedia Structural Integrity, 2022, 37, 209-216.	0.8	1

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19	Ultrasonically Assisted Cutting of Histological Sections for ÂReducing the Environmental and Financial Impact of Microtomy. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	0
20	Fracture mechanisms of additively manufactured polylactide: Effect of in vitro hydrolytic degradation. Engineering Fracture Mechanics, 2022, 269, 108572.	4.3	3
21	Thermal debonding of inclusions in compacted graphite iron: effect of matrix phases. Engineering Failure Analysis, 2022, , 106476.	4.0	5
22	Simulation of buckling-driven progressive damage in composite wind turbine blade under extreme wind loads. Engineering Failure Analysis, 2022, 140, 106574.	4.0	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.	7.8	1
24	Algorithm to determine orientation distribution function from microscopic images of fibrous networks: Validation with X-ray microtomography. Micron, 2022, 160, 103321.	2.2	2
25	CONVEX (CONtinuously Varied EXtrusion): A new scale of design for additive manufacturing. Additive Manufacturing, 2021, 37, 101576.	3.0	10
26	High-impact exercise stimulated localised adaptation of microarchitecture across distal tibia in postmenopausal women. Osteoporosis International, 2021, 32, 907-919.	3.1	12
27	ZigZagZ: Improving mechanical performance in extrusion additive manufacturing by nonplanar toolpaths. Additive Manufacturing, 2021, 38, 101715.	3.0	5
28	Anisotropic mechanical behaviour of calendered nonwoven fabrics: Strain-rate dependency. Journal of Composite Materials, 2021, 55, 1783-1798.	2.4	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.	2.5	24
30	Analytical prediction of shear angle and frictional behaviour in vibration-assisted cutting. Journal of Manufacturing Processes, 2021, 62, 37-46.	5.9	17
31	Mechanical performance of 3D printed polylactide during degradation. Additive Manufacturing, 2021, 38, 101764.	3.0	10
32	A computational study of fatigue resistance of nitinol stents subjected to walkâ€induced femoropopliteal artery motion. Journal of Biomechanics, 2021, 118, 110295.	2.1	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.	3.1	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.	3.1	1
35	Analytical corrections for double-cantilever beam tests. International Journal of Fracture, 2021, 229, 269-276.	2.2	8
36	Impact of polyurea-coated metallic targets: Computational framework. Composite Structures, 2021, 267, 113893.	5.8	12

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37	Thermal performance of additively manufactured polymer lattices. Journal of Building Engineering, 2021, 39, 102243.	3.4	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.	3.1	4
39	MaTrEx AM: A new hybrid additive manufacturing process to selectively control mechanical properties. Additive Manufacturing, 2021, 47, 102337.	3.0	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.	0.3	0
41	Pioneering personalised design of femoropopliteal nitinol stents. Materials Science and Engineering C, 2021, 130, 112462.	7.3	6
42	Theory of dynamic mode-II delamination in end-notched flexure tests. Composite Structures, 2021, 274, 114332.	5.8	4
43	Oblique penetration mechanism of hybrid composite laminates. Science and Engineering of Composite Materials, 2021, 28, 568-578.	1.4	0
44	Discussion on the microscale geometry as the dominant factor for strength anisotropy in material extrusion additive manufacturing. Additive Manufacturing, 2021, 48, 102390.	3.0	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.	1.7	0
47	Dynamic interfacial fracture of a double cantilever beam. Engineering Fracture Mechanics, 2020, 225, 106246.	4.3	13
48	Deformation and damage of random fibrous networks. International Journal of Solids and Structures, 2020, 184, 233-247.	2.7	17
49	Ice vs. steel: Ballistic impact of woven carbon/epoxy composites. Part I â€“ Deformation and damage behaviour. Engineering Fracture Mechanics, 2020, 225, 106270.	4.3	7
50	Production of high-quality extremely-thin histological sections by ultrasonically assisted cutting. Journal of Materials Processing Technology, 2020, 276, 116403.	6.3	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.	2.8	16
52	Experimental investigation on the effect of drill quality on the performance of bone drilling. Biomedizinische Technik, 2020, 65, 113-120.	0.8	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.	3.1	40
54	Ice vs. steel: Ballistic impact of woven carbon/epoxy composites. Part II â€“ Numerical modelling. Engineering Fracture Mechanics, 2020, 225, 106297.	4.3	9

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55	Mechanism of material removal in orthogonal cutting of cortical bone. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103618.	3.1	36
56	Mechanistic evaluation of long-term in-stent restenosis based on models of tissue damage and growth. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1425-1446.	2.8	21
57	Fracture of 3D-printed polymers: Crucial role of filament-scale geometric features. Engineering Fracture Mechanics, 2020, 224, 106818.	4.3	45
58	Dynamic delamination on elastic interface. Composite Structures, 2020, 234, 111670.	5.8	10
59	Finite element simulations of conventional and ultrasonically assisted turning processes with plane and textured cutting inserts. Journal of Micromanufacturing, 2020, 3, 54-68.	1.1	2
60	Mechanical modification of bacterial cellulose hydrogel under biaxial cyclic tension. Mechanics of Materials, 2020, 142, 103272.	3.2	9
61	Modelling strain localization in Tiâ€“6Alâ€“4V at high loading rate: a phenomenological approach. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190105.	3.4	2
62	Dry vs. wet: Properties and performance of collagen films. Part I. Mechanical behaviour and strain-rate effect. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103983.	3.1	19
63	Editorial: 22nd European Conference on Fracture (ECF 22). International Journal of Fatigue, 2020, 139, 105658.	5.7	0
64	Comprehensive experimental analysis and sustainability assessment of machining Nimonic 90 using ultrasonic-assisted turning facility. International Journal of Advanced Manufacturing Technology, 2020, 109, 1447-1462.	3.0	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. Composite Structures, 2020, 253, 112734.	5.8	10
69	Dry vs. wet: Properties and performance of collagen films. Part II. Cyclic and time-dependent behaviours. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104040.	3.1	12
70	Printed hydrogel nanocomposites: fine-tuning nanostructure for anisotropic mechanical and conductive properties. Advanced Composites and Hybrid Materials, 2020, 3, 315-324.	21.1	44
71	A brief review on the mechanical behavior of nonwoven fabrics. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502097019.	1.0	8
72	Fracture of 3D-printed micro-tensile specimens: filament-scale geometry-induced anisotropy. Procedia Structural Integrity, 2020, 28, 591-601.	0.8	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.	3.2	3
74	Interlayer bonding has bulk-material strength in extrusion additive manufacturing: New understanding of anisotropy. Additive Manufacturing, 2020, 34, 101297.	3.0	20
75	Shear band widening mechanism in Tiâ€“6Alâ€“4V under high strain rate deformation. Journal of Materials Research, 2020, 35, 1623-1634.	2.6	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.	1.9	3
78	Structural integrity analysis and damage assessment of a long composite wind turbine blade under extreme loading. Composite Structures, 2020, 246, 112426.	5.8	24
79	Numerical study of crack initiation and growth in human cortical bone: Effect of micro-morphology. Engineering Fracture Mechanics, 2020, 232, 107051.	4.3	14
80	Size effect in flexural behaviour of unidirectional GFRP composites. Journal of Mechanical Science and Technology, 2020, 34, 5053-5061.	1.5	9
81	Improvements of material removal in cortical bone via impact cutting method. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 108, 103791.	3.1	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.	3.1	12
83	Damage in extrusion additive manufactured parts: effect of environment and cyclic loading. Procedia Structural Integrity, 2020, 28, 452-457.	0.8	4
84	Fracture Behaviour of Collagen: Effect of Environment. Procedia Structural Integrity, 2020, 28, 843-849.	0.8	3
85	Polyurea-coated glass-fibre-reinforced laminate under high-speed impact: experimental study. Procedia Structural Integrity, 2020, 28, 1572-1578.	0.8	3
86	Intelligent Manipulator with Flexible Link and Joint: Modeling and Vibration Control. Shock and Vibration, 2020, 2020, 1-15.	0.6	24
87	Experimental and Numerical Methods to Analyse Deformation and Damage in Random Fibrous Networks. Advanced Structured Materials, 2020, , 151-174.	0.5	0
88	Trabecular bone remodelling: finite-element simulation. Procedia Structural Integrity, 2020, 28, 577-583.	0.8	2
89	High-Speed Mode-I Delamination. Structural Integrity, 2020, , 3-8.	1.4	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. Procedia Structural Integrity, 2020, 28, 1286-1294.	0.8	9
92	Ballistic performance of polyurea-coated thin aluminium plates: numerical study. Procedia Structural Integrity, 2020, 28, 1258-1266.	0.8	0
93	Scale invariance in stochastic fracture of rocks. , 2020, , 49-54.		0
94	Ultrasonically assisted drilling in marble. Journal of Sound and Vibration, 2019, 460, 114880.	3.9	8
95	A crystal-plasticity model of extruded AM30 magnesium alloy. Computational Materials Science, 2019, 170, 109140.	3.0	11
96	Failure behaviour of short-fibre-reinforced PBT composites: Effect of strain rate. Engineering Failure Analysis, 2019, 105, 466-476.	4.0	18
97	Mesoscale damage analysis of needle-punched carbon/carbon composite considering randomness of inherent defects. Composites Science and Technology, 2019, 183, 107821.	7.8	9
98	Damage and damping of short-glass-fibre-reinforced PBT composites under dynamic conditions: Effect of matrix behaviour. Composite Structures, 2019, 226, 111286.	5.8	17
99	Nonwovensâ€"Structure-process-property relationships. , 2019, , 109-143.		0
100	Hybrid machining of metal-matrix composite. Procedia CIRP, 2019, 82, 184-189.	1.9	28
101	Experimental Study of Synthesized Co-polymer for Stent Application. Procedia Structural Integrity, 2019, 15, 55-59.	0.8	3
102	Mechanical Performance of Self-expandable Nitinol Stent with Lesion-specific Design. Procedia Structural Integrity, 2019, 15, 24-27.	0.8	2
103	Finite Element Modelling of Stent Deployment in a Patient-specific Coronary Artery. Procedia Structural Integrity, 2019, 15, 28-32.	0.8	1
104	Characterisation of Additively Manufactured Metallic Stents. Procedia Structural Integrity, 2019, 15, 41-45.	0.8	5
105	Characterisation of Mechanical Properties of Polymeric Stent using Nanoindentation. Procedia Structural Integrity, 2019, 15, 51-54.	0.8	0
106	Tensile properties of 3D multi-layer wrapping braided composite: Progressive damage analysis. Composites Part B: Engineering, 2019, 176, 107334.	12.0	21
107	Characterising variability and regional correlations of microstructure and mechanical competence of human tibial trabecular bone: An in-vivo HR-pQCT study. Bone, 2019, 121, 139-148.	2.9	19
108	Machinability of natural-fibre-reinforced polymer composites: Conventional vs ultrasonically-assisted machining. Composites Part A: Applied Science and Manufacturing, 2019, 119, 188-195.	7.6	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.	2.4	12
111	SPH-BEM simulation of underwater explosion and bubble dynamics near rigid wall. Science China Technological Sciences, 2019, 62, 1082-1093.	4.0	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.	3.1	1
113	Enhanced machinability of SiC-reinforced metal-matrix composite with hybrid turning. Journal of Materials Processing Technology, 2019, 268, 149-161.	6.3	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.	3.1	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.	1.5	16
116	When superhydrophobic coatings are icephobic: Role of surface topology. Surface and Coatings Technology, 2019, 358, 207-214.	4.8	76
117	Multi-objective optimization of ultrasonic-assisted magnetic abrasive finishing process. International Journal of Advanced Manufacturing Technology, 2019, 101, 1661-1670.	3.0	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.	5.6	47
119	Low-cycle fatigue of single crystal nickel-based superalloy â€“ mechanical testing and TEM characterisation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 538-547.	5.6	43
120	Theoretical Analysis on Needle-Punched Carbon/Carbon Composites. Applied Composite Materials, 2019, 26, 805-816.	2.5	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.	3.2	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.	3.0	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.	2.4	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.	0.3	4
125	IDENTIFICATION OF ELASTIC PARAMETERS OF COMPOSITE USING EXPERIMENTAL DATA ON MODAL CHARACTERISTICS OF SAMPLES. PNRPU Mechanics Bulletin, 2019, , .	0.4	0
126	Small-Scale Machining Simulations. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 349-362.	0.6	0

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127	Initiation and growth of short cracks in a nickel-based single crystal superalloy. , 2019, , 388-391.		0
128	Ultrasonic Assisted Turning: A Comparative Study of Surface Integrity. Lecture Notes on Multidisciplinary Industrial Engineering, 2018, , 337-360.	0.6	0
129	Experimental studies of shear bands in Zr-Cu metallic glass. Journal of Non-Crystalline Solids, 2018, 484, 40-48.	3.1	14
130	Discontinuous Finite Element Model of Hydrogels. , 2018, , 3-16.		1
131	Numerical Simulation of Bone Cutting. , 2018, , 187-201.		7
132	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.	2.2	15
133	Simulation of Crack Propagation Under Mixed-Mode Loading. , 2018, , 1-38.		0
134	3D DDD modelling of dislocationâ€“precipitate interaction in a nickel-based single crystal superalloy under cyclic deformation. Philosophical Magazine, 2018, 98, 1550-1575.	1.6	10
135	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.	1.8	19
136	Indentation in single-crystal 6H silicon carbide: Experimental investigations and finite element analysis. International Journal of Mechanical Sciences, 2018, 144, 858-864.	6.7	20
137	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.	5.8	9
138	Transparent icephobic coatings using bio-based epoxy resin. Materials and Design, 2018, 140, 516-523.	7.0	49
139	Effect of hybrid machining on structural integrity of aerospace-grade materials. Procedia CIRP, 2018, 77, 163-166.	1.9	3
140	Ultrasonically assisted drilling of aerospace CFRP/Ti stacks. Procedia CIRP, 2018, 77, 383-386.	1.9	27
141	Experimental and Morphological Investigations of Fracture Behavior of PBT/TPEE. Procedia Structural Integrity, 2018, 13, 511-516.	0.8	2
142	Dynamic interfacial fracture of a thin-layered structure. Procedia Structural Integrity, 2018, 13, 613-618.	0.8	4
143	Interfacial fracture of 3D-printed bioresorbable polymers. Procedia Structural Integrity, 2018, 13, 625-630.	0.8	8
144	Numerical and analytical model of long tubular bones with anisotropic distribution of elastic properties. Procedia Structural Integrity, 2018, 13, 636-641.	0.8	0

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145	Computational Evaluation of Artery Damage in Stent Deployment. Procedia Structural Integrity, 2018, 13, 187-191.	0.8	4
146	Relations between Parameters of Fracture Processes on Different Scale Levels. Doklady Physics, 2018, 63, 459-461.	0.7	0
147	Ultrasonically assisted drilling of rocks. AIP Conference Proceedings, 2018, , .	0.4	4
148	A diffusion-based approach for modelling crack tip behaviour under fatigue-oxidation conditions. International Journal of Fracture, 2018, 213, 157-170.	2.2	5
149	8.14 Composites Under Dynamic Loads at High Velocities. , 2018, , 262-285.		5
150	Mechanically Robust Transparent Antiâ€Icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. Advanced Materials Interfaces, 2018, 5, 1800773.	3.7	16
151	Underwater explosion of cylindrical charge near plates: Analysis of pressure characteristics and cavitation effects. International Journal of Impact Engineering, 2018, 121, 91-105.	5.0	41
152	Hybrid machining process: experimental and numerical analysis of hot ultrasonically assisted turning. International Journal of Advanced Manufacturing Technology, 2018, 97, 2173-2192.	3.0	21
153	Damage accumulation in braided textiles-reinforced composites under repeated impacts: Experimental and numerical studies. Composite Structures, 2018, 204, 256-267.	5.8	26
154	Finite Element Modeling and Analysis of Ultrasonically-Assisted Drilling of Bone. , 2018, , .		1
155	Dynamics and Thermodynamics of Fracture Mechanics. , 2018, , 1-6.		0
156	Influence of Tool Material on Forces, Temperature and Surface Quality of Ti-15333 Alloy in CT and UAT. Scientia Iranica, 2018, .	0.4	0
157	Controlled failure warning and mitigation of prematurely failing beam through adhesive. Composite Structures, 2017, 161, 119-131.	5.8	15
158	Damage response of steel plate to underwater explosion: Effect of shaped charge liner. International Journal of Impact Engineering, 2017, 103, 38-49.	5.0	67
159	Linear ultrasonic motor for absolute gravimeter. Ultrasonics, 2017, 77, 88-94.	3.9	34
160	Enhanced gradient crystal-plasticity study of size effects in aÎ²-titanium alloy. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 035013.	2.0	4
161	Retardation effects due to overloads in aluminiumâ€alloy aeronautical components. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1484-1500.	3.4	4
162	Failure analysis of plain woven glass/epoxy laminates: Comparison of off-axis and biaxial tension loadings. Polymer Testing, 2017, 60, 307-320.	4.8	31

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163	Numerical Representation of Multiple Premature Failures in Steel-Plated RC Beams. International Journal of Computational Methods, 2017, 14, 1750035.	1.3	10
164	Evaluation of the chemical and biomechanical viscoelastic properties of decellularised tracheal scaffolds. Cytotherapy, 2017, 19, S26.	0.7	1
165	Rotary ultrasonic bone drilling: Improved pullout strength and reduced damage. Medical Engineering and Physics, 2017, 41, 1-8.	1.7	40
166	Computational modelling of wounded tissue subject to negative pressure wound therapy following trans-femoral amputation. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1819-1832.	2.8	4
167	Assessing stiffness of nanofibres in bacterial cellulose hydrogels: Numerical-experimental framework. Materials Science and Engineering C, 2017, 77, 9-18.	7.3	22
168	Microstructural evolution of Ti6Al4V in ultrasonically assisted cutting: Numerical modelling and experimental analysis. Ultrasonics, 2017, 78, 70-82.	3.9	50
169	Incorporation and evolution of ZrO2 nano-particles in Pt-modified aluminide coating for high temperature applications. Surface and Coatings Technology, 2017, 311, 238-247.	4.8	18
170	Temperature-dependent mechanical behaviour of PMMA: Experimental analysis and modelling. Polymer Testing, 2017, 58, 86-95.	4.8	90
171	Impact damage in woven carbon fibre/epoxy laminates: analysis of damage and dynamic strain fields. Procedia Engineering, 2017, 199, 2500-2505.	1.2	6
172	Low cycle fatigue of a directionally solidified nickel-based superalloy: Testing, characterisation and modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 503-513.	5.6	18
173	Experimental and computational studies of poly-L-lactic acid for cardiovascular applications: recent progress. Mechanics of Advanced Materials and Modern Processes, 2017, 3, .	2.2	18
174	Braided textile composites for sports protection: Energy absorption and delamination in impact modelling. Materials and Design, 2017, 136, 258-269.	7.0	41
175	Improved analytical prediction of chip formation in orthogonal cutting of titanium alloy Ti6Al4V. International Journal of Mechanical Sciences, 2017, 133, 357-367.	6.7	63
176	Application of Smoothed Particle Hydrodynamics in analysis of shaped-charge jet penetration caused by underwater explosion. Ocean Engineering, 2017, 145, 177-187.	4.3	28
177	Temperature-dependent crystal-plasticity model for magnesium: A bottom-up approach. Mechanics of Materials, 2017, 113, 44-56.	3.2	24
178	Failure analysis of a frangible composite cover: A transient-dynamics study. Journal of Composite Materials, 2017, 51, 2607-2617.	2.4	4
179	Comparison of plane-stress, generalized-plane-strain and 3D FEM elasticâ€“plastic analyses of thick-walled cylinders subjected to radial thermal gradient. International Journal of Mechanical Sciences, 2017, 131-132, 744-752.	6.7	21
180	Relative behaviour of premature failures in adhesively plated RC beam using controllable and existing parameters. Composite Structures, 2017, 180, 75-87.	5.8	9

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181	Micro CT Analysis of Dynamic Damage in Laminates: Impact vs. blast loading. Journal of Physics: Conference Series, 2017, 842, 012077.	0.4	1
182	174â€…Comparison of the mechanical performance of polymeric and metallic scaffolds â€“ testing and modelling. Heart, 2017, 103, A121.2-A122.	2.9	0
183	Modeling of normal force and finishing torque considering shearing and ploughing effects in ultrasonic assisted magnetic abrasive finishing process with sintered magnetic abrasive powder. Wear, 2017, 390-391, 11-22.	3.1	25
184	Dynamic damage in woven carbon/epoxy composites due to air blast. Procedia Structural Integrity, 2017, 6, 5-10.	0.8	4
185	Effect of surgical defect localization on ultimate load-bearing capacity of human femur: finite-element energy-based assessment. Procedia Structural Integrity, 2017, 6, 27-33.	0.8	2
186	Effect of micro-morphology of cortical bone tissue on fracture toughness and crack propagation. Procedia Structural Integrity, 2017, 6, 64-68.	0.8	10
187	Notches in fibrous materials: micro-mechanisms of deformation and damage. Procedia Structural Integrity, 2017, 6, 168-173.	0.8	1
188	Analysis of pulsed electroplasticity in metals. , 2017, , .		3
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