

Rade Vignjevic

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

64
papers

1,081
citations

16
h-index

31
g-index

71
ext. papers

1,255
ext. citations

3.5
avg, IF

4.16
L-index

#	Paper	IF	Citations
64	Development of modelling design tool for harpoon for active space debris removal.. <i>International Journal of Impact Engineering</i> , 2022 , 104236	4	1
63	Constitutive model for fibre reinforced composites with progressive damage based on the spectral decomposition of material stiffness tensor. <i>Composite Structures</i> , 2022 , 292, 115596	5.3	1
62	Low- and high-fidelity modeling of sandwich-structured composite response to bird strike, as tools for a digital-twin-assisted damage diagnosis. <i>International Journal of Impact Engineering</i> , 2021 , 160, 104058	4.58	3
61	The nonlocal, local and mixed forms of the SPH method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 387, 114164	5.7	3
60	Transport Theorem for Spaces and Subspaces of Arbitrary Dimensions. <i>Mathematics</i> , 2020 , 8, 899	2.3	
59	A numerical study on the influence of internal corrugated reinforcements on the biaxial bending collapse of thin-walled beams. <i>Thin-Walled Structures</i> , 2019 , 144, 106277	4.7	4
58	Soft body impact resistance of composite foam core sandwich panels with unidirectional corrugated and tubular reinforcements. <i>International Journal of Impact Engineering</i> , 2019 , 132, 103320	4	7
57	On Entropy Flux of Anisotropic Elastic Bodies. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	
56	Modelling of strain softening materials based on equivalent damage force. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 335, 52-68	5.7	19
55	Transferring momentum: Novel drop protection concept for mobile devices. <i>International Journal of Impact Engineering</i> , 2018 , 117, 85-101	4	2
54	Modelling of shock waves in fcc and bcc metals using a combined continuum and dislocation kinetic approach. <i>International Journal of Plasticity</i> , 2018 , 105, 211-224	7.6	13
53	The effect of the orientation of cubical projectiles on the ballistic limit and failure mode of AA2024-T351 sheets. <i>International Journal of Impact Engineering</i> , 2017 , 104, 21-37	4	6
52	A study of the effect of projectile orientation on the results of ballistic impact tests as described in the EASA CS-25 regulations for fuel tank access covers. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2017 , 231, 1970-1978	0.9	
51	A Study of the effect of aspect ratio on fragmentation of explosively driven cylinders. <i>Procedia Engineering</i> , 2017 , 204, 194-201		2
50	Prediction of the ballistic limit of an aluminium sandwich panel. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032089	0.3	
49	Numerical modelling of the effect of using multi-explosives on the explosive forming of steel cones. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032074	0.3	2
48	Advisory system development for reliable FEM modelling in aerospace. <i>Aircraft Engineering and Aerospace Technology</i> , 2015 , 87, 11-18	5	2

47	Lagrangian analysis led design of a shock recovery plate impact experiment. <i>International Journal of Impact Engineering</i> , 2015 , 77, 16-29	4	8
46	SPH as a nonlocal regularisation method: Solution for instabilities due to strain-softening. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 277, 281-304	5.7	12
45	On the dynamic tensile strength of Zirconium. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 112004	0.3	0
44	Explicit dynamic formulation to demonstrate compliance against quasi-static aircraft seat certification loads (CS25.561) [Part I: influence of time and mass scaling. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014 , 228, 1982-1995	0.9	3
43	Explicit dynamic formulation to demonstrate compliance against quasi-static aircraft seat certification loads (CS25.561) [Part II: Influence of body blocks. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014 , 228, 1890-1903	0.9	3
42	Non-linear idealisation error analysis of an aerospace stiffened panel loaded in compression. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014 , 228, 1574-1585	0.9	1
41	A parametric study of bird strike on engine blades. <i>International Journal of Impact Engineering</i> , 2013 , 60, 44-57	4	46
40	From aerospace to offshore: Bridging the numerical simulation gapsSimulation advancements for fluid structure interaction problems. <i>International Journal of Impact Engineering</i> , 2013 , 61, 48-63	4	57
39	Total Lagrangian SPH modelling of necking and fracture in electromagnetically driven rings. <i>International Journal of Fracture</i> , 2013 , 180, 53-70	2.3	14
38	Plane-Stress Analysis of the New Stress Tensor Decomposition. <i>Applied Mechanics and Materials</i> , 2013 , 315, 635-639	0.3	6
37	Modelling of Shockwave Propagation in Orthotropic Materials. <i>Applied Mechanics and Materials</i> , 2013 , 315, 557-561	0.3	10
36	Non-linear idealisation error analysis of a metallic stiffened panel loaded in compression. <i>Thin-Walled Structures</i> , 2012 , 54, 44-53	4.7	10
35	Modelling of dynamic behaviour of orthotropic metals including damage and failure. <i>International Journal of Plasticity</i> , 2012 , 38, 47-85	7.6	29
34	Simulating structural response to water impact. <i>International Journal of Impact Engineering</i> , 2012 , 49, 1-10	4	14
33	Modelling of dynamic damage and failure in aluminium alloys. <i>International Journal of Impact Engineering</i> , 2012 , 49, 61-76	4	17
32	Structural analysis of a commercial vehicle disc brake caliper. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012 , 226, 613-622	1.4	8
31	Derivation of SPH equations in a moving referential coordinate system. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 2403-2411	5.7	12
30	Review of Development of the Smooth Particle Hydrodynamics (SPH) Method 2009 , 367-396		14

29	An SPH Technique for Evaluating the Behaviour of Ships in Extreme Ocean Waves. <i>Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering</i> , 2009 , 151, 39		6
28	Artificial Viscosity Methods for Modelling Shock Wave Propagation 2009 , 349-365		3
27	Modeling shock waves in orthotropic elastic materials. <i>Journal of Applied Physics</i> , 2008 , 104, 044904	2.5	14
26	Application of the finite element method to predict the crashworthy response of a metallic helicopter under floor structure onto water. <i>International Journal of Impact Engineering</i> , 2008 , 35, 347-362		18
25	The effect of orientation on the shock response of a carbon fibre-epoxy composite. <i>Composites Science and Technology</i> , 2007 , 67, 3253-3260	8.6	59
24	Application of the finite element method to predict the crashworthy response of a metallic helicopter underfloor structure onto a hard surface. <i>International Journal of Crashworthiness</i> , 2007 , 12, 173-195	1	2
23	Experimental observations of an 8 m/s drop test of a metallic helicopter underfloor structure onto water: Part 2. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2007 , 221, 679-690	0.9	3
22	Experimental observations of an 8 m/s drop test of a metallic helicopter underfloor structure onto a hard surface: Part 1. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2007 , 221, 661-678	0.9	3
21	Material Failure Modelling in Metals at High Strain Rates. <i>AIP Conference Proceedings</i> , 2006 ,	0	5
20	Coupling between meshless and finite element methods. <i>International Journal of Impact Engineering</i> , 2005 , 31, 1054-1064	4	78
19	The response of honeycomb sandwich panels under low-velocity impact loading. <i>International Journal of Mechanical Sciences</i> , 2005 , 47, 1301-1325	5.5	98
18	Numerical simulations of low-velocity impact on an aircraft sandwich panel. <i>Composite Structures</i> , 2003 , 62, 353-360	5.3	77
17	Finite element analysis of residual stress induced by shot peening process. <i>Advances in Engineering Software</i> , 2003 , 34, 569-575	3.6	71
16	Deployable space manipulator closed-loop control, ideas and possibilities of using GPS as a sensor. <i>Advances in Space Research</i> , 2002 , 30, 419-425	2.4	2
15	Effects of orientation on the strength of the aluminum alloy 7010-T6 during shock loading: Experiment and simulation. <i>Journal of Applied Physics</i> , 2002 , 92, 4342-4348	2.5	36
14	Cost effective honeycomb and multi-layer insulation debris shields for unmanned spacecraft. <i>International Journal of Impact Engineering</i> , 2001 , 26, 785-796	4	19
13	Simulation of helicopter under-floor structure impact on water. <i>International Journal of Crashworthiness</i> , 2001 , 6, 425-443	1	12
12	A contact algorithm for smoothed particle hydrodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 184, 49-65	5.7	102

11	A treatment of zero-energy modes in the smoothed particle hydrodynamics method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 184, 67-85	5-7	79
10	Modelling of Spall in an Anisotropic Aluminium Alloy. <i>Space Debris</i> , 2000 , 2, 225-232		4
9	Finite Element Modelling of Failure of a Multi-Material Target due to High Velocity Space Debris Impacts. <i>Space Debris</i> , 2000 , 2, 41-50		3
8	A penalty approach for contact in smoothed particle hydrodynamics. <i>International Journal of Impact Engineering</i> , 1999 , 23, 945-956	4	11
7	Towards high fidelity finite element analysis. <i>Advances in Engineering Software</i> , 1998 , 29, 655-665	3.6	7
6	Development of lagrangian hydrocode modelling for debris impact damage prediction. <i>International Journal of Impact Engineering</i> , 1997 , 20, 143-152	4	7
5	Consistent finite element structural analysis and error control. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 140, 87-108	5-7	19
4	A hybrid approach to the transient collapse analysis of thin walled frameworks II. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 148, 423-437	5-7	3
3	A hybrid approach to the transient collapse analysis of thin walled frameworks I. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 148, 407-421	5-7	5
2	Numerical simulation of the Lynx helicopter main lift-frame component collapse. <i>International Journal of Crashworthiness</i> , 1996 , 2, 25-38	1	3
1	The Compound Beam Element with Non-Linear Moment-Rotation Curves for the Side Impact and Roof Crush Analysis Using DYNA3D Program 1992 ,		1