

# Rade Vignjevic

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4634674/rade-vignjevic-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

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	A contact algorithm for smoothed particle hydrodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 184, 49-65	5.7	102
63	The response of honeycomb sandwich panels under low-velocity impact loading. <i>International Journal of Mechanical Sciences</i> , <b>2005</b> , 47, 1301-1325	5.5	98
62	A treatment of zero-energy modes in the smoothed particle hydrodynamics method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 184, 67-85	5.7	79
61	Coupling between meshless and finite element methods. <i>International Journal of Impact Engineering</i> , <b>2005</b> , 31, 1054-1064	4	78
60	Numerical simulations of low-velocity impact on an aircraft sandwich panel. <i>Composite Structures</i> , <b>2003</b> , 62, 353-360	5.3	77
59	Finite element analysis of residual stress induced by shot peening process. <i>Advances in Engineering Software</i> , <b>2003</b> , 34, 569-575	3.6	71
58	The effect of orientation on the shock response of a carbon fibre/epoxy composite. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 3253-3260	8.6	59
57	From aerospace to offshore: Bridging the numerical simulation gaps—Simulation advancements for fluid structure interaction problems. <i>International Journal of Impact Engineering</i> , <b>2013</b> , 61, 48-63	4	57
56	A parametric study of bird strike on engine blades. <i>International Journal of Impact Engineering</i> , <b>2013</b> , 60, 44-57	4	46
55	Effects of orientation on the strength of the aluminum alloy 7010-T6 during shock loading: Experiment and simulation. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4342-4348	2.5	36
54	Modelling of dynamic behaviour of orthotropic metals including damage and failure. <i>International Journal of Plasticity</i> , <b>2012</b> , 38, 47-85	7.6	29
53	Modelling of strain softening materials based on equivalent damage force. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 335, 52-68	5.7	19
52	Consistent finite element structural analysis and error control. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1997</b> , 140, 87-108	5.7	19
51	Cost effective honeycomb and multi-layer insulation debris shields for unmanned spacecraft. <i>International Journal of Impact Engineering</i> , <b>2001</b> , 26, 785-796	4	19
50	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> , <b>2008</b> , 35, 347-362	4	18
49	Modelling of dynamic damage and failure in aluminium alloys. <i>International Journal of Impact Engineering</i> , <b>2012</b> , 49, 61-76	4	17
48	Simulating structural response to water impact. <i>International Journal of Impact Engineering</i> , <b>2012</b> , 49, 1-10	4	14

47	Total Lagrangian SPH modelling of necking and fracture in electromagnetically driven rings. <i>International Journal of Fracture</i> , <b>2013</b> , 180, 53-70	2.3	14
46	Review of Development of the Smooth Particle Hydrodynamics (SPH) Method <b>2009</b> , 367-396		14
45	Modeling shock waves in orthotropic elastic materials. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 044904	2.5	14
44	Modelling of shock waves in fcc and bcc metals using a combined continuum and dislocation kinetic approach. <i>International Journal of Plasticity</i> , <b>2018</b> , 105, 211-224	7.6	13
43	SPH as a nonlocal regularisation method: Solution for instabilities due to strain-softening. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2014</b> , 277, 281-304	5.7	12
42	Derivation of SPH equations in a moving referential coordinate system. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2009</b> , 198, 2403-2411	5.7	12
41	Simulation of helicopter under-floor structure impact on water. <i>International Journal of Crashworthiness</i> , <b>2001</b> , 6, 425-443	1	12
40	A penalty approach for contact in smoothed particle hydrodynamics. <i>International Journal of Impact Engineering</i> , <b>1999</b> , 23, 945-956	4	11
39	Non-linear idealisation error analysis of a metallic stiffened panel loaded in compression. <i>Thin-Walled Structures</i> , <b>2012</b> , 54, 44-53	4.7	10
38	Modelling of Shockwave Propagation in Orthotropic Materials. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 315, 557-561	0.3	10
37	Lagrangian analysis led design of a shock recovery plate impact experiment. <i>International Journal of Impact Engineering</i> , <b>2015</b> , 77, 16-29	4	8
36	Structural analysis of a commercial vehicle disc brake caliper. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2012</b> , 226, 613-622	1.4	8
35	Soft body impact resistance of composite foam core sandwich panels with unidirectional corrugated and tubular reinforcements. <i>International Journal of Impact Engineering</i> , <b>2019</b> , 132, 103320	4	7
34	Development of lagrangian hydrocode modelling for debris impact damage prediction. <i>International Journal of Impact Engineering</i> , <b>1997</b> , 20, 143-152	4	7
33	Towards high fidelity finite element analysis. <i>Advances in Engineering Software</i> , <b>1998</b> , 29, 655-665	3.6	7
32	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> , <b>2017</b> , 104, 21-37	4	6
31	Plane-Stress Analysis of the New Stress Tensor Decomposition. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 315, 635-639	0.3	6
30	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> , <b>2009</b> , 151, 39		6

29	A hybrid approach to the transient collapse analysis of thin walled frameworks I. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1997</b> , 148, 407-421	5-7	5
28	Material Failure Modelling in Metals at High Strain Rates. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	0	5
27	A numerical study on the influence of internal corrugated reinforcements on the biaxial bending collapse of thin-walled beams. <i>Thin-Walled Structures</i> , <b>2019</b> , 144, 106277	4-7	4
26	Modelling of Spall in an Anisotropic Aluminium Alloy. <i>Space Debris</i> , <b>2000</b> , 2, 225-232		4
25	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> , <b>2014</b> , 228, 1982-1995	0.9	3
24	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> , <b>2014</b> , 228, 1890-1903	0.9	3
23	A hybrid approach to the transient collapse analysis of thin walled frameworks II. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1997</b> , 148, 423-437	5-7	3
22	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> , <b>2007</b> , 221, 679-690	0.9	3
21	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> , <b>2007</b> , 221, 661-678	0.9	3
20	Finite Element Modelling of Failure of a Multi-Material Target due to High Velocity Space Debris Impacts. <i>Space Debris</i> , <b>2000</b> , 2, 41-50		3
19	Numerical simulation of the Lynx helicopter main lift-frame component collapse. <i>International Journal of Crashworthiness</i> , <b>1996</b> , 2, 25-38	1	3
18	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> , <b>2021</b> , 160, 104058	4-8	3
17	The nonlocal, local and mixed forms of the SPH method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 387, 114164	5-7	3
16	Artificial Viscosity Methods for Modelling Shock Wave Propagation <b>2009</b> , 349-365		3
15	Advisory system development for reliable FEM modelling in aerospace. <i>Aircraft Engineering and Aerospace Technology</i> , <b>2015</b> , 87, 11-18	5	2
14	Transferring momentum: Novel drop protection concept for mobile devices. <i>International Journal of Impact Engineering</i> , <b>2018</b> , 117, 85-101	4	2
13	A Study of the effect of aspect ratio on fragmentation of explosively driven cylinders. <i>Procedia Engineering</i> , <b>2017</b> , 204, 194-201		2
12	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> , <b>2007</b> , 12, 173-195	1	2

11	Deployable space manipulator closed-loop control, ideas and possibilities of using GPS as a sensor. <i>Advances in Space Research</i> , <b>2002</b> , 30, 419-425	2.4	2
10	Numerical modelling of the effect of using multi-explosives on the explosive forming of steel cones. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032074	0.3	2
9	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> , <b>2014</b> , 228, 1574-1585	0.9	1
8	The Compound Beam Element with Non-Linear Moment-Rotation Curves for the Side Impact and Roof Crush Analysis Using DYNA3D Program <b>1992</b> ,		1
7	Development of modelling design tool for harpoon for active space debris removal.. <i>International Journal of Impact Engineering</i> , <b>2022</b> , 104236	4	1
6	Constitutive model for fibre reinforced composites with progressive damage based on the spectral decomposition of material stiffness tensor. <i>Composite Structures</i> , <b>2022</b> , 292, 115596	5.3	1
5	On the dynamic tensile strength of Zirconium. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 500, 112004	0.3	0
4	Transport Theorem for Spaces and Subspaces of Arbitrary Dimensions. <i>Mathematics</i> , <b>2020</b> , 8, 899	2.3	
3	On Entropy Flux of Anisotropic Elastic Bodies. <i>International Journal of Thermophysics</i> , <b>2019</b> , 40, 1	2.1	
2	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> , <b>2017</b> , 231, 1970-1978	0.9	
1	Prediction of the ballistic limit of an aluminium sandwich panel. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032089	0.3	