Joris J C Remmers

List of Publications by Year
in descending order

66 papers	2,179 citations	304602 22 h-index	265120 42 g-index
73 all docs	73 docs citations	73 times ranked	1767 citing authors

#	Article	IF	Citations
1	An adaptive isogeometric shell element for the prediction of initiation and growth of multiple delaminations in curved composite structures. Computers and Structures, 2022, 260, 106701.	2.4	3
2	A discrete element framework for the numerical analysis of particle bed-based additive manufacturing processes. Engineering With Computers, 2022, 38, 4753-4768.	3.5	3
3	A generalised path-following solver for robust analysis of material failure. Computational Mechanics, 2022, 70, 437-450.	2.2	3
4	Multiphysical modeling and optimal control of material properties for photopolymerization processes. Additive Manufacturing, 2021, 38, 101520.	1.7	4
5	Deformation and failure kinetics of polyvinylidene fluoride: Influence of crystallinity. Journal of Polymer Science, 2021, 59, 1209-1220.	2.0	3
6	The initiation and progression of damage in composite overwrapped pressure vessels subjected to contact loads. Journal of Reinforced Plastics and Composites, 2021, 40, 594-605.	1.6	8
7	Prediction of the deformed geometry of vat photo-polymerized components using a multi-physical modeling framework. Additive Manufacturing, 2021, 40, 101922.	1.7	8
8	Real-Time Nonlinear Tracking Control of Photopolymerization for Additive Manufacturing. , 2021, , .		0
9	Efficient modelling of delamination growth using adaptive isogeometric continuum shell elements. Computational Mechanics, 2020, 65, 99-117.	2.2	8
10	Multi-dimensional wavelet reduction for the homogenisation of microstructures. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112652.	3.4	5
11	Assessment of contact-induced damage mechanisms in thick-walled composite cylinders. Journal of Reinforced Plastics and Composites, 2020, 39, 679-699.	1.6	10
12	A staggered finite element procedure for the coupled Stokes-Biot system with fluid entry resistance. Computational Geosciences, 2020, 24, 1497-1522.	1.2	17
13	Multi-scale process simulation for additive manufacturing through particle filled vat photopolymerization. Computational Materials Science, 2020, 180, 109647.	1.4	27
14	Wavelet based reduced order models for microstructural analyses. Computational Mechanics, 2019, 63, 535-554.	2.2	15
15	Effects of Intrinsic Properties on Fracture Nucleation and Propagation in Swelling Hydrogels. Polymers, 2019, 11, 926.	2.0	3
16	Influence of particle shape in the additive manufacturing process for ceramics. Computers and Mathematics With Applications, 2019, 78, 2360-2376.	1.4	11
17	Shear response of 3D non-woven carbon fibre reinforced composites. Journal of the Mechanics and Physics of Solids, 2019, 125, 276-297.	2.3	14
18	Gradient-enhanced damage modeling in Kirchhoffâ€“Love shells: Application to isogeometric analysis of composite laminates. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 152-179.	3.4	22

#	Article	IF	Citations
19	Multiphysical modeling of the photopolymerization process for additive manufacturing of ceramics. European Journal of Mechanics, A/Solids, 2018, 71, 210-223.	2.1	31
20	On the numerical simulation of crack interaction in hydraulic fracturing. Computational Geosciences, 2018, 22, 423-437.	1.2	8
21	3D Printed structural electronics: embedding and connecting electronic components into freeform electronic devices. Plastics, Rubber and Composites, 2018, 47, 35-41.	0.9	29
22	Swelling Driven Crack Propagation in Large Deformation in Ionized Hydrogel. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	1.1	8
23	Integration efficiency for model reduction in micro-mechanical analyses. Computational Mechanics, 2018, 62, 151-169.	2.2	12
24	Swelling-Driven Crack Propagation in Large Deformation in Ionized Hydrogel. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	1.1	2
25	Advances in Delamination Modeling of Metal/Polymer Systems: Continuum Aspects. , 2018, , 83-128.		0
26	An investigation of the step-wise propagation of a mode-II fracture in a poroelastic medium. Mechanics Research Communications, 2017, 80, 10-15.	1.0	12
27	Hydraulic Fracturing in Anisotropic and Heterogeneous Rocks. , 2017, , .		2
28	Finite versus small strain discrete dislocation analysis of cantilever bending of single crystals. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 763-777.	1.5	2
29	Swelling Driven Cracking in Large Deformation in Porous Media. , 2017, , .		1
30	Isogeometric analysis for modelling of failure in advanced composite materials. , 2015, , 309-329.		1
31	The enhanced local pressure model for the accurate analysis of fluid pressure driven fracture in porous materials. Computer Methods in Applied Mechanics and Engineering, 2015, 286, 293-312.	3.4	63
32	A Partition of Unity-Based Model for Crack Nucleation and Propagation in Porous Media, Including Orthotropic Materials. Transport in Porous Media, 2015, 106, 505-522.	1.2	12
33	Propagation of delamination in composite materials with isogeometric continuum shell elements. International Journal for Numerical Methods in Engineering, 2015, 102, 159-179.	1.5	33
34	The incorporation of gradient damage models in shell elements. International Journal for Numerical Methods in Engineering, 2014, 98, 391-398.	1.5	10
35	Evolving Discontinuities and Cohesive Fracture. Procedia IUTAM, 2014, 10, 125-137.	1.2	5
36	An isogeometric continuum shell element for non-linear analysis. Computer Methods in Applied Mechanics and Engineering, 2014, 271, 1-22.	3.4	82

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37	An isogeometric analysis BÃ©zier interface element for mechanical and poromechanical fracture problems. International Journal for Numerical Methods in Engineering, 2014, 97, 608-628.	1.5	42
38	The cohesive band model: a cohesive surface formulation with stress triaxiality. International Journal of Fracture, 2013, 181, 177-188.	1.1	27
39	Isogeometric finite element analysis of poroelasticity. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 1891-1907.	1.7	43
40	An isogeometric solidâ€like shell element for nonlinear analysis. International Journal for Numerical Methods in Engineering, 2013, 95, 238-256.	1.5	79
41	A large deformation formulation for fluid flow in a progressively fracturing porous material. Computer Methods in Applied Mechanics and Engineering, 2013, 256, 29-37.	3.4	39
42	An Isogeometric Analysis Approach to Fluid Flow in a Fractured Porous Medium. , 2013, , .		0
43	Discontinuous Versus Continuous Chemical Potential Across a Crack in a Swelling Porous Medium. , 2013, , 317-334.		0
44	A partition of unityâ€based multiscale approach for modelling fracture in piezoelectric ceramics. International Journal for Numerical Methods in Engineering, 2010, 82, 966-994.	1.5	32
45	Computational homogenization for adhesive and cohesive failure in quasiâ€brittle solids. International Journal for Numerical Methods in Engineering, 2010, 83, 1155-1179.	1.5	117
46	Model for the Scaling of Stresses and Fluctuations in Flows near Jamming. Physical Review Letters, 2010, 105, 088303.	2.9	130
47	A dissipationâ€based arcâ€length method for robust simulation of brittle and ductile failure. International Journal for Numerical Methods in Engineering, 2009, 77, 1290-1321.	1.5	140
48	Analysis of fracture and delamination in laminates using 3D numerical modelling. Engineering Fracture Mechanics, 2009, 76, 761-780.	2.0	40
49	Influence of Porosity on the Interlaminar Shear Strength of Fibre-Metal Laminates. Key Engineering Materials, 2008, 383, 35-52.	0.4	22
50	Mechanical Response of Composites. Computational Methods in Applied Sciences (Springer), 2008, , .	0.1	9
51	Computational Methods for Debonding in Composites. Computational Methods in Applied Sciences (Springer), 2008, , 1-25.	0.1	7
52	Numerical Modelling of Self Healing Mechanisms. Springer Series in Materials Science, 2007, , 365-380.	0.4	6
53	An Evaluation of the Accuracy of Discontinuous Finite Elements in Explicit Dynamic Calculations. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2007, , 303-322.	0.1	0
54	Influence of porosity on the interlaminar shear strength of fibre-metal laminates. , 2006, , .		5

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55	Computational modelling of delamination. Composites Science and Technology, 2006, 66, 713-722.	3.8	83
56	Mesh-independent discrete numerical representations of cohesive-zone models. Engineering Fracture Mechanics, 2006, 73, 160-177.	2.0	141
57	Discretevs smeared crack models for concrete fracture: bridging the gap. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 583-607.	1.7	177
58	Cohesive-zone models, higher-order continuum theories and reliability methods for computational failure analysis. International Journal for Numerical Methods in Engineering, 2004, 60, 289-315.	1.5	90
59	Stochastic Finite Element Modelling of Fibre-Metal Laminates. , 2004, , .		2
60	Application of the Discontinuous Solid-Like Shell Element to Delamination. , 2004, , .		2
61	A Cohesive Segments Approach For Dynamic Crack Growth. Solid Mechanics and Its Applications, 2004, , 299-306.	0.1	0
62	A solid-like shell element allowing for arbitrary delaminations. International Journal for Numerical Methods in Engineering, 2003, 58, 2013-2040.	1.5	79
63	Numerical Modelling of Fibre Metal Laminates Under Thermomechanical Loading. , 2003, , .		2
64	Delamination Buckling of Fibre-Metal Laminates Under Compressive and Shear Loadings. , 2002, , .		8
65	Delamination buckling of fibreâ€“metal laminates. Composites Science and Technology, 2001, 61, 2207-2213.	3.8	84
66	The Competition between Adhesive and Cohesive Fracture at Amicro-Patterned Polymer-Metal Interface. Key Engineering Materials, 0, 577-578, 225-228.	0.4	2