

# Sven Bossuyt

## List of Publications by Year in descending order

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48  
papers

1,020  
citations

623734

14  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1136  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen embrittlement of nodular cast iron. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 245-254.	1.5	4
2	Quantifying the Effectiveness of Patterning, Test Conditions, and DIC Parameters for Characterization of Plastic Strain Localization. <i>Experimental Mechanics</i> , 2020, 60, 3-12.	2.0	4
3	An overview of 38 least squares-based frameworks for structural damage tomography. <i>Structural Health Monitoring</i> , 2020, 19, 215-239.	7.5	11
4	Characterization of Microstructurally Small Fatigue Crack Behavior. <i>Structural Integrity</i> , 2020, , 332-333.	1.4	0
5	Dull punch line is not a joke – Worn cutting edge causes higher iron losses in electrical steel piercing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 55, 141-146.	9.9	8
6	Strain localization in copper canister FSW welds for spent nuclear fuel disposal. <i>Journal of Nuclear Materials</i> , 2019, 523, 347-359.	2.7	18
7	Full-field Strain Measurements for Microstructurally Small Fatigue Crack Propagation Using Digital Image Correlation Method. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
8	Stacked Elasticity Imaging Approach for Visualizing Defects in the Presence of Background Inhomogeneity. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, 06018006.	2.9	5
9	OpenQSEI: A MATLAB package for quasi static elasticity imaging. <i>SoftwareX</i> , 2019, 9, 73-76.	2.6	9
10	Quantifying Nuclear Remodeling in Heart Failure. <i>Biophysical Journal</i> , 2018, 114, 499a.	0.5	1
11	Strain accumulation during microstructurally small fatigue crack propagation in bcc Fe-Cr ferritic stainless steel. <i>Acta Materialia</i> , 2018, 144, 51-59.	7.9	49
12	Coupled digital image correlation and quasi-static elasticity imaging of inhomogeneous orthotropic composite structures. <i>Inverse Problems</i> , 2018, 34, 124005.	2.0	17
13	Localisation of plastic deformation in friction stir and electron beam copper welds. <i>Materials Science and Technology</i> , 2017, 33, 1119-1129.	1.6	5
14	Fatigue strength of laser-welded foam-filled steel sandwich beams. <i>Materials and Design</i> , 2017, 115, 64-72.	7.0	17
15	Shear Banding Observed in Real-Time with a Laser Speckle Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 327-333.	0.5	0
16	Microcontact printing on metallic surfaces for optical deformation measurements. <i>Proceedings of the Estonian Academy of Sciences</i> , 2017, 66, 184.	1.5	4
17	Onset of frictional sliding in rubber-ice contact. <i>Cold Regions Science and Technology</i> , 2015, 115, 1-8.	3.5	14
18	<i>a priori</i> error estimate of the finite element solution to a Poisson inverse source problem. <i>Inverse Problems</i> , 2014, 30, 085007.	2.0	6

#	ARTICLE	IF	CITATIONS
19	$\beta$ -Adrenergic Signaling Inhibits G <sub>q</sub> -Dependent Protein Kinase D Activation by Preventing Protein Kinase D Translocation. <i>Circulation Research</i> , 2014, 114, 1398-1409.	4.5	13
20	Optimized Patterns for Digital Image Correlation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013, , 239-248.	0.5	37
21	Steady-state tensile viscous flow forming of bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2012, 536, S109-S112.	5.5	1
22	Bulk metallic glass tube casting. <i>Journal of Alloys and Compounds</i> , 2011, 509, S210-S213.	5.5	10
23	A combined arc-melting and tilt-casting furnace for the manufacture of high-purity bulk metallic glass materials. <i>Review of Scientific Instruments</i> , 2011, 82, 073901.	1.3	7
24	Thermoplastic Wire Drawing from Bulk Metallic Glass. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1300, 1.	0.1	1
25	Spatiotemporally Distinct Protein Kinase D Activation in Adult Cardiomyocytes in Response to Phenylephrine and Endothelin. <i>Journal of Biological Chemistry</i> , 2011, 286, 33390-33400.	3.4	38
26	Mesh Refinement for Inverse Problems with Finite Element Models. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011, , 125-130.	0.5	0
27	A reference specimen for permeability measurements of fibrous reinforcements for RTM. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 244-250.	7.6	31
28	Damage localization from vibration data using hierarchical a priori assumptions. <i>Journal of Physics: Conference Series</i> , 2009, 181, 012088.	0.4	0
29	2D permeability tensor identification of fibrous reinforcements for RTM using an inverse method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1530-1536.	7.6	29
30	Resonant vibration analysis for temperature dependence of elastic properties of bulk metallic glass. <i>Journal of Materials Research</i> , 2007, 22, 533-537.	2.6	9
31	Computer Simulation and Experiments to Evaluate Digital Image Correlation Methods. , 2007, , 279-280.		0
32	Quality assessment of speckle patterns for digital image correlation. <i>Optics and Lasers in Engineering</i> , 2006, 44, 1132-1145.	3.8	395
33	Improvement of the glass-forming ability of Zr55Cu30Al10Ni5 and Cu47Ti34Zr11Ni8 alloys by electro-deoxidation of the melts. <i>Scripta Materialia</i> , 2006, 55, 87-90.	5.2	23
34	Full-field optical measurement for material parameter identification with inverse methods. <i>WIT Transactions on the Built Environment</i> , 2006, , .	0.0	18
35	Minimizing convection effects to measure diffusion in liquid droplets during high-temperature electrostatic levitation. <i>Review of Scientific Instruments</i> , 2005, 76, 033909.	1.3	5
36	Enhanced temperature uniformity by tetrahedral laser heating. <i>Review of Scientific Instruments</i> , 2004, 75, 4523-4527.	1.3	13

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37	Processing of metallic glass-forming liquids under ultra-high gravity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 341-345.	5.6	9
38	Electrochemical removal of oxygen for processing glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 240-243.	5.6	11
39	Effects of Positive Feedback on Crystallization Kinetics and Recalescence. Materials Research Society Symposia Proceedings, 2003, 806, 77.	0.1	1
40	Eutectic isolation in Mg-Al-Cu-Li(-Y) alloys by centrifugal processing. Philosophical Magazine, 2003, 83, 2797-2813.	1.6	6
41	Eutectic isolation in Mg-Al-Cu-Li(-Y) alloys by centrifugal processing. Philosophical Magazine, 2003, 83, 2797-2813.	1.6	1
42	Electrochemical Removal of Oxygen in amorphous Zr <sub>55</sub> Cu <sub>30</sub> Al <sub>10</sub> Ni <sub>5</sub> . Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
43	Transient Deformation and Flow in Bulk Metallic Glasses and Deeply Undercooled Glass Forming Liquids – A Self-Consistent Dynamic Free Volume Model. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	1
44	High-temperature centrifugation: a tool for finding eutectic compositions in multicomponent alloys. Applied Physics Letters, 2002, 81, 4159-4161.	3.3	12
45	Crystallization behavior of the bulk metallic glass forming Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> liquid. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 287-291.	5.6	35
46	Spatial localization of the nucleation rate and formation of inhomogeneous nanocrystalline dispersions in deeply undercooled glass forming liquids. Scripta Materialia, 2001, 44, 2781-2787.	5.2	9
47	Crystallization of amorphous Cu <sub>47</sub> Ti <sub>34</sub> Zr <sub>11</sub> Ni <sub>8</sub> . Journal of Applied Physics, 2001, 89, 1573.	2.5	58
48	Crystallization of bulk amorphous Zr-Ti(Nb)-Cu-Ni-Al. Applied Physics Letters, 2000, 77, 525-527.	3.3	64