

# Franck N'Guyen

## List of Publications by Year in descending order

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16  
papers

716  
citations

687363

13  
h-index

940533

16  
g-index

16  
all docs

16  
docs citations

16  
times ranked

752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apparent and effective physical properties of heterogeneous materials: Representativity of samples of two materials from food industry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 3960-3982.	6.6	164
2	3D quantitative image analysis of open-cell nickel foams under tension and compression loading using X-ray microtomography. <i>Philosophical Magazine</i> , 2005, 85, 2147-2175.	1.6	84
3	Investigation on the influence of cell shape anisotropy on the mechanical performance of closed cell aluminium foams using micro-computed tomography. <i>Journal of Materials Science</i> , 2005, 40, 5801-5811.	3.7	60
4	Ensemble averaging stress-strain fields in polycrystalline aggregates with a constrained surface microstructure Part 1: anisotropic elastic behaviour. <i>Philosophical Magazine</i> , 2007, 87, 1401-1424.	1.6	60
5	Microstructure and damage initiation in duplex stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 317, 32-36.	5.6	47
6	A multiscale microstructure model of carbon black distribution in rubber. <i>Journal of Microscopy</i> , 2011, 241, 243-260.	1.8	46
7	Effect of Multiaxial Stress State on Morphology and Spatial Distribution of Voids in Deformed Semicrystalline Polymer Assessed by X-ray Tomography. <i>Macromolecules</i> , 2012, 45, 4658-4668.	4.8	46
8	Impact of material processing and deformation on cell morphology and mechanical behavior of polyurethane and nickel foams. <i>International Journal of Solids and Structures</i> , 2012, 49, 2714-2732.	2.7	42
9	Effective thermal and mechanical properties of randomly oriented short and long fiber composites. <i>Mechanics of Materials</i> , 2017, 107, 56-70.	3.2	31
10	Effect of the Cold-Sprayed Aluminum Coating-Substrate Interface Morphology on Bond Strength for Aircraft Repair Application. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 671-686.	3.1	29
11	Comparison of experimental results and finite element simulation of strain localization scheme under cyclic loading. <i>Computational Materials Science</i> , 2009, 46, 755-760.	3.0	26
12	A methodology to model the complex morphology of rough interfaces. <i>International Journal of Solids and Structures</i> , 2014, 51, 3293-3302.	2.7	24
13	Three-dimensional investigation of thermal barrier coatings by synchrotron-radiation computed laminography. <i>Scripta Materialia</i> , 2012, 66, 471-474.	5.2	22
14	Microstructure Evolution of a Platinum-Modified Nickel-Aluminide Coating During Thermal and Thermo-mechanical Fatigue. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4589-4600.	2.2	13
15	Random Approach to Peening Coverage in Ultrasonic Shot-Peening. <i>Materials and Manufacturing Processes</i> , 1995, 10, 1101-1106.	4.7	12
16	Virtual improvement of ice cream properties by computational homogenization of microstructures. <i>Mechanics Research Communications</i> , 2011, 38, 136-140.	1.8	10