

Ãric Maire

List of Publications by Year in descending order

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294
papers

14,305
citations

22132

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docs citations

297
times ranked

10446
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed experimental validation and benchmarking of six models for longitudinal tensile failure of unidirectional composites. <i>Composite Structures</i> , 2022, 279, 114828.	3.1	27
2	4D characterisation of void nucleation, void growth and void coalescence using advanced void tracking algorithm on in situ X-ray tomographic data. <i>Materials Today Communications</i> , 2022, 32, 103892.	0.9	4
3	Analyzing defects and their effects on the strength of a three-layer FSW joint by using X-ray microtomography, localized spectrum analysis, and acoustic emission. <i>Materials Characterization</i> , 2022, 190, 112069.	1.9	6
4	On the effect of the curing cycle on the creation of pores in structural adhesive joints by means of X-ray microtomography. <i>Journal of Adhesion</i> , 2021, 97, 1073-1106.	1.8	6
5	The importance of a variable fibre packing density in modelling the tensile behaviour of single filament yarns. <i>Journal of the Textile Institute</i> , 2021, 112, 733-741.	1.0	1
6	Experimental investigation of porosities evolution in a bonded assembly by means of X-ray tomography. <i>Journal of Adhesion</i> , 2021, 97, 528-552.	1.8	12
7	X-ray computed tomography. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	305
8	Scale up of single-chamber microbial fuel cells with stainless steel 3D anode: Effect of electrode surface areas and electrode spacing. <i>Bioresource Technology Reports</i> , 2021, 13, 100632.	1.5	12
9	Microstructural damage behaviour of Al foams. <i>Acta Materialia</i> , 2021, 208, 116739.	3.8	16
10	3D Anode Microbial Fuel Cell Characterization and Monitoring Coupling X-Ray Tomography and Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2021, 168, 054513.	1.3	1
11	Tomography Imaging of Lithium Electrodeposits Using Neutron, Synchrotron X-Ray, and Laboratory X-Ray Sources: A Comparison. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	10
12	In situ observation of liquid metal dealloying and etching of porous FeCr by X-ray tomography and X-ray diffraction. <i>Materialia</i> , 2021, 18, 101125.	1.3	0
13	Large scale additive manufacturing of artificial stone components using binder jetting and their X-ray microtomography investigations. <i>Open Ceramics</i> , 2021, 7, 100162.	1.0	4
14	Evolution of fibre deflection leading to kink-band formation in unidirectional glass fibre/epoxy composite under axial compression. <i>Composites Science and Technology</i> , 2021, 213, 108929.	3.8	22
15	4D in situ monitoring of the setting of β plaster using synchrotron X-ray tomography with high spatial and temporal resolution. <i>Construction and Building Materials</i> , 2021, 304, 124632.	3.2	4
16	Role of crystallographic orientation on intragranular void growth in polycrystalline FCC materials. <i>International Journal of Plasticity</i> , 2021, 147, 103104.	4.1	24
17	Mechanical properties of unidirectional, porous polymer/ceramic composites for biomedical applications. <i>Open Ceramics</i> , 2021, 8, 100195.	1.0	10
18	Grain boundary characterization from particle coordinates. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2

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19	Experimental study of the fiber orientations in single and multi-ply continuous filament yarns. <i>Journal of the Textile Institute</i> , 2020, 111, 646-659.	1.0	6
20	Micromechanical modelling of edge failure in 800MPa advanced high strength steels. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103855.	2.3	10
21	A rationale for the influence of grain size on failure of magnesium alloy AZ31: An in situ X-ray microtomography study. <i>Acta Materialia</i> , 2020, 200, 619-631.	3.8	31
22	Impact of the binder nature on the morphological change of sulfur electrodes upon cycling investigated by in situ characterization methods. <i>Journal of Power Sources</i> , 2020, 477, 228374.	4.0	13
23	Micro-tensile behavior of struts extracted from an aluminum foam. <i>Materials Characterization</i> , 2020, 166, 110456.	1.9	10
24	Multiscale Characterization of Composite Electrode Microstructures for High Density Lithium-ion Batteries Guided by the Specificities of Their Electronic and Ionic Transport Mechanisms. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100521.	1.3	18
25	Monitoring the morphological changes of Si-based electrodes by X-ray computed tomography: A 4D-multiscale approach. <i>Nano Energy</i> , 2020, 74, 104848.	8.2	20
26	Study on Cell Deformation of Low Porosity Aluminum Foams under Quasi-Static Compression by X-ray Tomography. <i>Advanced Engineering Materials</i> , 2020, 22, 2000264.	1.6	8
27	Experimental stress state-dependent void nucleation behavior for advanced high strength steels. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105661.	3.6	26
28	Quantitative analysis of flow dynamics of organic granular materials inside a versatile silo model during time-lapse X-ray tomography experiments. <i>Computers and Electronics in Agriculture</i> , 2020, 172, 105346.	3.7	4
29	On the influence of mechanical loadings on the porosities of structural epoxy adhesives joints by means of in-situ X-ray microtomography. <i>International Journal of Adhesion and Adhesives</i> , 2020, 99, 102568.	1.4	12
30	Sulfur-Based Electrode Using a Polyelectrolyte Binder Studied via Coupled in Situ Synchrotron X-ray Diffraction and Tomography. <i>ACS Applied Energy Materials</i> , 2020, 3, 2422-2431.	2.5	9
31	Highlighting the role of heterogeneity on the indentation hardness of foamed gypsum. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3795-3805.	2.8	6
32	Multiscale deformation processes during cold sintering of nanovaterite compacts. <i>Acta Materialia</i> , 2020, 189, 266-273.	3.8	8
33	Fatigue performances of chemically etched thin struts built by selective electron beam melting: Experiments and predictions. <i>Materialia</i> , 2020, 9, 100589.	1.3	41
34	Corrosion resistance of porous ferritic stainless steel produced by liquid metal dealloying of Incoloy 800. <i>Corrosion Science</i> , 2020, 166, 108468.	3.0	20
35	Compressive deformation behavior of dendritic Mg-Ca-Zn alloys at high temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138180.	2.6	9
36	Direct observation of the displacement field and microcracking in a glass by means of X-ray tomography during in situ Vickers indentation experiment. <i>Acta Materialia</i> , 2019, 179, 424-433.	3.8	17

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37	Insight into the Directional Thermal Transport of Hexagonal Boron Nitride Composites. ACS Applied Materials & Interfaces, 2019, 11, 41726-41735.	4.0	33
38	Polymerization shrinkage of resin-based composites for dental restorations: A digital volume correlation study. Dental Materials, 2019, 35, 1654-1664.	1.6	9
39	Damage in a cast AlSi12Ni alloy: In situ tomography, 2D and 3D image correlation. Materialia, 2019, 8, 100475.	1.3	1
40	Crack nucleation and growth in β/α titanium alloy with lamellar microstructure under uniaxial tension: 3D X-ray tomography analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 747, 154-160.	2.6	20
41	Fabrication and characterization of hardystonite-chitosan biocomposite scaffolds. Ceramics International, 2019, 45, 8804-8814.	2.3	21
42	Stochastic characterization of textile reinforcements in composites based on X-ray microtomographic scans. Composite Structures, 2019, 224, 111031.	3.1	3
43	Role of Hydrogen-Charging on Nucleation and Growth of Ductile Damage in Austenitic Stainless Steels. Materials, 2019, 12, 1426.	1.3	8
44	Effect of surface properties of capillary structures on the thermal behaviour of a LHP flat disk-shaped evaporator. International Journal of Thermal Sciences, 2019, 142, 163-175.	2.6	2
45	Dynamics of the Morphological Degradation of Si-Based Anodes for Li-Ion Batteries Characterized by In Situ Synchrotron X-Ray Tomography. Advanced Energy Materials, 2019, 9, 1803947.	10.2	59
46	Effect of build orientation on the fatigue properties of as-built Electron Beam Melted Ti-6Al-4V alloy. International Journal of Fatigue, 2019, 118, 65-76.	2.8	94
47	Compressive performance and deformation mechanism of the dynamic gas injection aluminum foams. Materials Characterization, 2019, 147, 11-20.	1.9	45
48	In situ characterization of Si-based anodes by coupling synchrotron X-ray tomography and diffraction. Nano Energy, 2019, 56, 799-812.	8.2	34
49	Climate-Dependent Heat-Triggered Opening Mechanism of <i>Banksia</i> Seed Pods. Advanced Science, 2018, 5, 1700572.	5.6	29
50	Comparison of aluminium foams prepared by different methods using X-ray tomography. Materials Characterization, 2018, 138, 296-307.	1.9	23
51	Enhancing the tensile properties of EBM as-built thin parts: Effect of HIP and chemical etching. Materials Characterization, 2018, 143, 82-93.	1.9	55
52	Thermal conductivity of highly porous metal foams: Experimental and image based finite element analysis. International Journal of Heat and Mass Transfer, 2018, 122, 1-10.	2.5	48
53	Quantitative assessment of the impact of second phase particle arrangement on damage and fracture anisotropy. Acta Materialia, 2018, 148, 456-466.	3.8	46
54	Analysis of compaction in brittle foam with multiscale indentation tests. Mechanics of Materials, 2018, 118, 22-30.	1.7	10

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55	A Facile and Very Effective Method to Enhance the Mechanical Strength and the Cyclability of Si-Based Electrodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701787.	10.2	80
56	Tensile rupture of medial arterial tissue studied by X-ray micro-tomography on stained samples. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 362-368.	1.5	12
57	In situ analysis of plasticity and damage nucleation in a Ti-6Al-4V alloy and laser weld. <i>Materials Characterization</i> , 2018, 146, 81-90.	1.9	17
58	Analysis of shear stress promoting void evolution behavior in an α/β Ti alloy with fully lamellar microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 27-39.	2.6	12
59	Two-Scale Tomography Based Finite Element Modeling of Plasticity and Damage in Aluminum Foams. <i>Materials</i> , 2018, 11, 1984.	1.3	8
60	Influence of tubificid worms on sediment structure, benthic biofilm and fauna in wetlands: A field enclosure experiment. <i>Freshwater Biology</i> , 2018, 63, 1420-1432.	1.2	10
61	Gas permeability of Ti6Al4V foams prepared via gelcasting, experiments and modelling. <i>Computational Materials Science</i> , 2018, 152, 363-373.	1.4	4
62	Revealing the Effect of Local Connectivity of Rigid Phases during Deformation at High Temperature of Cast AlSi12Cu4Ni(2,3)Mg Alloys. <i>Materials</i> , 2018, 11, 1300.	1.3	15
63	Microstructure characterization by X-ray tomography and EBSD of porous FeCr produced by liquid metal dealloying. <i>Materials Characterization</i> , 2018, 144, 166-172.	1.9	19
64	Compression behavior of lattice structures produced by selective laser melting: X-ray tomography based experimental and finite element approaches. <i>Acta Materialia</i> , 2018, 159, 395-407.	3.8	144
65	Ductilization of aluminium alloy 6056 by friction stir processing. <i>Acta Materialia</i> , 2017, 130, 121-136.	3.8	78
66	Two-scale study of the fracture of an aluminum foam by X-ray tomography and finite element modeling. <i>Materials and Design</i> , 2017, 120, 117-127.	3.3	41
67	Fracture behavior of robocast HA/ β -TCP scaffolds studied by X-ray tomography and finite element modeling. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1735-1745.	2.8	32
68	Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. <i>Materials Characterization</i> , 2017, 124, 165-170.	1.9	7
69	Multiscale Morphological and Electrical Characterization of Charge Transport Limitations to the Power Performance of Positive Electrode Blends for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602239.	10.2	69
70	Effect of solution heat treatment on microstructure and damage accumulation in cast Al-Cu alloys. <i>Journal of Alloys and Compounds</i> , 2017, 697, 341-352.	2.8	24
71	Cold-rolling influence on microstructure and mechanical properties of NiCr - Ag composites and porous NiCr obtained by liquid metal dealloying. <i>Journal of Alloys and Compounds</i> , 2017, 707, 251-256.	2.8	11
72	Self-diffusion of electrolyte species in model battery electrodes using Magic Angle Spinning and Pulsed Field Gradient Nuclear Magnetic Resonance. <i>Journal of Power Sources</i> , 2017, 362, 315-322.	4.0	10

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73	Effect of strut orientation on the microstructure heterogeneities in AlSi10Mg lattices processed by selective laser melting. <i>Scripta Materialia</i> , 2017, 141, 32-35.	2.6	100
74	A clustering method for analysis of morphology of short natural fibers in composites based on X-ray microtomography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 184-195.	3.8	20
75	Identification of the crushing behavior of brittle foam: From indentation to oedometric tests. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 98, 181-200.	2.3	26
76	Multiscale morphological characterization of process induced heterogeneities in blended positive electrodes for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3576-3596.	1.7	35
77	CoCrMo cellular structures made by Electron Beam Melting studied by local tomography and finite element modelling. <i>Materials Characterization</i> , 2016, 116, 48-54.	1.9	22
78	<i>In situ</i> observation of plaster microstructure evolution during thermal loading. <i>Fire and Materials</i> , 2016, 40, 973-984.	0.9	5
79	Interfacial stability and electrochemical behavior of Li/LiFePO ₄ batteries using novel soft and weakly adhesive photo-ionogel electrolytes. <i>Journal of Power Sources</i> , 2016, 330, 92-103.	4.0	15
80	Imaging grain boundary grooves in hard-sphere colloidal bicrystals. <i>Physical Review E</i> , 2016, 94, 042604.	0.8	6
81	Evolution of the 3D Microstructure of a Si-Based Electrode for Li-Ion Batteries Investigated by FIB/SEM Tomography. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1550-A1559.	1.3	34
82	Failure Mechanisms of Plasterboard in Nail Pull Test Determined by X-ray Microtomography and Digital Volume Correlation. <i>Experimental Mechanics</i> , 2016, 56, 1427-1437.	1.1	15
83	Urban pollution of sediments: Impact on the physiology and burrowing activity of tubificid worms and consequences on biogeochemical processes. <i>Science of the Total Environment</i> , 2016, 568, 196-207.	3.9	31
84	Three-dimensional investigation of grain orientation effects on void growth in commercially pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 221-232.	2.6	27
85	Mechanical behaviour of a β -TCP ceramic with a random porosity: Study of the fracture path with X-ray tomography. <i>Journal of the European Ceramic Society</i> , 2016, 36, 3225-3233.	2.8	11
86	Characterization and micromechanical modelling of microstructural heterogeneity effects on ductile fracture of 6xxx aluminium alloys. <i>Acta Materialia</i> , 2016, 103, 558-572.	3.8	66
87	20ÂHz X-ray tomography during an in situ tensile test. <i>International Journal of Fracture</i> , 2016, 200, 3-12.	1.1	99
88	In-situ X-ray tomographic monitoring of gypsum plaster setting. <i>Cement and Concrete Research</i> , 2016, 82, 107-116.	4.6	54
89	Homogeneous and heterogeneous rheology and flow-induced microstructures of a fresh fiber-reinforced mortar. <i>Cement and Concrete Research</i> , 2016, 82, 130-141.	4.6	13
90	In situ 3D Synchrotron Laminography Assessment of Edge Fracture in Dual-Phase Steels: Quantitative and Numerical Analysis. <i>Experimental Mechanics</i> , 2016, 56, 177-195.	1.1	17

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91	Effect of viscosity on cavity growth in ductile damage. <i>Mechanics of Materials</i> , 2015, 89, 169-175.	1.7	1
92	Fast virtual histology using X-ray in-line phase tomography: application to the 3D anatomy of maize developing seeds. <i>Plant Methods</i> , 2015, 11, 55.	1.9	49
93	Comparison of Damage Evolution in Different Steels by Means of 3D X Ray Tomography. <i>Steel Research International</i> , 2015, 86, 1197-1203.	1.0	2
94	Influence of fibre distribution and grain size on the mechanical behaviour of friction stir processed Mg/C composites. <i>Materials Characterization</i> , 2015, 107, 125-133.	1.9	23
95	A Multi-Scale Investigation of Pore Structure Impact on the Mobilization of Trapped Oil by Surfactant Injection. <i>Transport in Porous Media</i> , 2015, 109, 673-692.	1.2	42
96	Characterization of porosity, structure, and mechanical properties of electrospun SiOC fiber mats. <i>Journal of Materials Science</i> , 2015, 50, 4221-4231.	1.7	25
97	Damage characterisation in aluminium matrix composites reinforced with amorphous metal inclusions. <i>Materials Science and Technology</i> , 2015, 31, 579-586.	0.8	11
98	<i>In situ</i> tomographic investigation of damage development in $\pm 45^\circ$ carbon fibre reinforced laminates. <i>Materials Science and Technology</i> , 2015, 31, 587-593.	0.8	24
99	3D composite reinforcement meso F.E. analyses based on X-ray computed tomography. <i>Composite Structures</i> , 2015, 132, 1094-1104.	3.1	127
100	Quality control tool of electrode coating for lithium-ion batteries based on X-ray radiography. <i>Journal of Power Sources</i> , 2015, 298, 285-291.	4.0	26
101	Implementation of a damage evolution law for dual-phase steels in Gurson-type models. <i>Materials and Design</i> , 2015, 88, 1213-1222.	3.3	13
102	Damage law identification from full field displacement measurement: Application to four-point bending test for plasterboard. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 60-66.	2.1	16
103	Lightweight and stiff cellular ceramic structures by ice templating. <i>Journal of Materials Research</i> , 2014, 29, 175-181.	1.2	21
104	Nanovoid morphology and distribution in deformed HDPE studied by magnified synchrotron radiation holotomography. <i>Polymer</i> , 2014, 55, 6439-6443.	1.8	36
105	Digital Volume Correlation Applied to X-ray Tomography Images from Spherical Indentation Tests on Lightweight Gypsum. <i>Strain</i> , 2014, 50, 444-453.	1.4	47
106	Analysis of Composite Reinforcement at Mesoscopic Scale from X-Ray Microtomography. <i>Key Engineering Materials</i> , 2014, 611-612, 316-323.	0.4	0
107	Heterogenous void growth revealed by in situ 3-D X-ray microtomography using automatic cavity tracking. <i>Acta Materialia</i> , 2014, 63, 130-139.	3.8	56
108	Strong, tough and stiff bioinspired ceramics from brittle constituents. <i>Nature Materials</i> , 2014, 13, 508-514.	13.3	716

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109	3D morphological analysis of copper foams as current collectors for Li-ion batteries by means of X-ray tomography. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 187, 1-8.	1.7	31
110	Grain growth and static recrystallization kinetics in Co-20Cr-15W-10Ni (L-605) cobalt-base superalloy. <i>Philosophical Magazine</i> , 2014, 94, 1992-2008.	0.7	17
111	Templated Grain Growth in Macroporous Materials. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1736-1742.	1.9	47
112	Structural characterization of solid foams. <i>Comptes Rendus Physique</i> , 2014, 15, 674-682.	0.3	11
113	Quantitative X-ray tomography. <i>International Materials Reviews</i> , 2014, 59, 1-43.	9.4	975
114	Self-Assembly of Faceted Particles Triggered by a Moving Ice Front. <i>Langmuir</i> , 2014, 30, 8656-8663.	1.6	65
115	Mechanical properties of crumpled aluminum foils. <i>Acta Materialia</i> , 2014, 81, 98-110.	3.8	20
116	Characterization of ductile damage for a high carbon steel using 3D X-ray micro-tomography and mechanical tests – Application to the identification of a shear modified GTN model. <i>Computational Materials Science</i> , 2014, 84, 175-187.	1.4	59
117	Application of X-ray computed micro-tomography to the study of damage and oxidation kinetics of thermostructural composites. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 324, 113-117.	0.6	9
118	Separation of nucleation and growth of voids during tensile deformation of a dual phase steel using synchrotron microtomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 589, 242-251.	2.6	29
119	Meso-scale FE analyses of textile composite reinforcement deformation based on X-ray computed tomography. <i>Composite Structures</i> , 2014, 116, 165-176.	3.1	134
120	3D Multiscale Characterization of Silica Aerogels Composites. , 2014, , 29-34.		0
121	Three-dimensional Analysis of an In Situ Double-torsion Test by X-ray Computed Tomography and Digital Volume Correlation. <i>Experimental Mechanics</i> , 2013, 53, 1265-1275.	1.1	12
122	Local Tomography Study of the Fracture of an ERG Metal Foam. <i>Advanced Engineering Materials</i> , 2013, 15, 767-772.	1.6	14
123	Deformation Behavior and Dynamic Recrystallization of Biomedical Co-Cr-W-Ni (L-605) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2819-2830.	1.1	44
124	In situ observation of syntactic foams under hydrostatic pressure using X-ray tomography. <i>Acta Materialia</i> , 2013, 61, 4035-4043.	3.8	30
125	Time-lapse, three-dimensional in situ imaging of ice crystal growth in a colloidal silica suspension. <i>Acta Materialia</i> , 2013, 61, 2077-2086.	3.8	77
126	Influence of the restored work-hardening rate on ductility studied by X-ray computed tomography. <i>Philosophical Magazine Letters</i> , 2013, 93, 379-386.	0.5	0

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127	Onset of void coalescence in uniaxial tension studied by continuous X-ray tomography. <i>Acta Materialia</i> , 2013, 61, 1021-1036.	3.8	49
128	Numerical investigation and experimental validation of physically based advanced GTN model for DP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 1-12.	2.6	16
129	Damage evolution in TWIP and standard austenitic steel by means of 3D X ray tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 579, 92-98.	2.6	47
130	Effect of stress triaxiality on porosity evolution in notched bars: Quantitative agreement between a recent dilatational model and X-ray tomography data. <i>Mechanics Research Communications</i> , 2013, 50, 77-82.	1.0	12
131	Influence of wall roughness and packing density on stagnant zone formation during funnel flow discharge from a silo: An X-ray imaging study. <i>Chemical Engineering Science</i> , 2013, 97, 210-224.	1.9	42
132	Experimental investigation of void coalescence in a dual phase steel using X-ray tomography. <i>Acta Materialia</i> , 2013, 61, 6821-6829.	3.8	49
133	3D morphological evolution of porous titanium by x-ray micro- and nano-tomography. <i>Journal of Materials Research</i> , 2013, 28, 2444-2452.	1.2	39
134	Characterization by X-ray tomography of granulated alumina powder during in situ die compaction. <i>Materials Characterization</i> , 2013, 81, 111-123.	1.9	20
135	Modeling Grain Boundary Motion and Dynamic Recrystallization in Pure Metals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5861-5875.	1.1	23
136	Cellular solids studied by x-ray tomography and finite element modeling – a review. <i>Journal of Materials Research</i> , 2013, 28, 2191-2201.	1.2	46
137	Spark plasma sintering of pure iron nanopowders by simple route. <i>Powder Metallurgy</i> , 2012, 55, 76-79.	0.9	13
138	Application of an Advanced GTN Model. , 2012, , .		0
139	Phase Contrast Synchrotron Microtomography: Improving Noninvasive Investigations of Fossil Embryos In Ovo. <i>Microscopy and Microanalysis</i> , 2012, 18, 179-185.	0.2	14
140	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.	2.2	46
141	Particle redistribution and structural defect development during ice templating. <i>Acta Materialia</i> , 2012, 60, 4594-4603.	3.8	72
142	Bulk evaluation of ductile damage development using high resolution tomography and laminography. <i>Comptes Rendus Physique</i> , 2012, 13, 328-336.	0.3	17
143	Ductile damage in aluminium alloy thin sheets: Correlation between micro-tomography observations and mechanical modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 217-225.	2.6	29
144	X-Ray Tomography Applied to the Characterization of Highly Porous Materials. <i>Annual Review of Materials Research</i> , 2012, 42, 163-178.	4.3	71

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145	Mechanical Properties of Monofilament Entangled Materials. <i>Advanced Engineering Materials</i> , 2012, 14, 1128-1133.	1.6	17
146	Damage in dual phase steels and its constituents studied by X-ray tomography. <i>International Journal of Fracture</i> , 2012, 174, 217-227.	1.1	20
147	Fast InSitu X-Ray Microtomography Observations of Solidification and Semisolid Deformation of Al-Cu Alloys. <i>Jom</i> , 2012, 64, 83-88.	0.9	24
148	Effect of triaxiality on void growth and coalescence in model materials investigated by X-ray tomography. <i>Acta Materialia</i> , 2012, 60, 2829-2839.	3.8	38
149	Modeling the mechanical properties of optimally processed cordierite-mullite alumina ceramic foams by X-ray computed tomography and finite element analysis. <i>Acta Materialia</i> , 2012, 60, 4235-4246.	3.8	32
150	Ice Templating of Alumina Suspensions: Effect of Supercooling and Crystal Growth During the Initial Freezing Regime. <i>Journal of the American Ceramic Society</i> , 2012, 95, 799-804.	1.9	34
151	Non-destructive 3-D reconstruction of the martensitic phase in a dual-phase steel using synchrotron holotomography. <i>Scripta Materialia</i> , 2012, 66, 1077-1080.	2.6	29
152	Resolution effect on the study of ductile damage using synchrotron X-ray tomography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 284, 15-18.	0.6	31
153	Analysis of the bulk solid flow during gravitational silo emptying using X-ray and ECT tomography. <i>Powder Technology</i> , 2012, 224, 196-208.	2.1	32
154	Ultra Fast Tomography: New Developments for 4D Studies in Material Science. , 2012, , 203-208.		1
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