Anton du Plessis

List of Publications by Year
in descending order

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166	6,280	87888	79698
papers	citations	38 h-index	73 g-index

184	184	184	4511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metal additive manufacturing in aerospace: A review. Materials and Design, 2021, 209, 110008.	7.0	743
2	Effects of defects on mechanical properties in metal additive manufacturing: A review focusing on X-ray tomography insights. Materials and Design, 2020, 187, 108385.	7.0	354
3	X-Ray Microcomputed Tomography in Additive Manufacturing: A Review of the Current Technology and Applications. 3D Printing and Additive Manufacturing, 2018, 5, 227-247.	2.9	317
4	Architected cellular materials: A review on their mechanical properties towards fatigue-tolerant design and fabrication. Materials Science and Engineering Reports, 2021, 144, 100606.	31.8	316
5	X-ray computed tomography. Nature Reviews Methods Primers, 2021, 1, .	21.2	305
6	Beautiful and Functional: A Review of Biomimetic Design in Additive Manufacturing. Additive Manufacturing, 2019, 27, 408-427.	3.0	199
7	A review of X-ray computed tomography of concrete and asphalt construction materials. Construction and Building Materials, 2019, 199, 637-651.	7.2	185
8	X-ray micro-computed tomography (Î¼CT) for non-destructive characterisation of food microstructure. Trends in Food Science and Technology, 2016, 47, 10-24.	15.1	180
9	Laboratory x-ray micro-computed tomography: a user guideline for biological samples. GigaScience, 2017, 6, 1-11.	6.4	164
10	Properties and applications of additively manufactured metallic cellular materials: A review. Progress in Materials Science, 2022, 125, 100918.	32.8	164
11	Verification of authenticity and fraud detection in South African honey using NIR spectroscopy. Food Control, 2017, 73, 1388-1396.	5.5	145
12	Deformation Behavior and Microstructure of Ti6Al4V Manufactured by SLM. Physics Procedia, 2016, 83, 778-788.	1.2	120
13	The CT Scanner Facility at Stellenbosch University: An open access X-ray computed tomography laboratory. Nuclear Instruments & Methods in Physics Research B, 2016, 384, 42-49.	1.4	113
14	Fatigue strength assessment of â€œas builtâ€•AlSi10Mg manufactured by SLM with different build orientations. International Journal of Fatigue, 2020, 139, 105737.	5.7	113
15	Numerical comparison of lattice unit cell designs for medical implants by additive manufacturing. Virtual and Physical Prototyping, 2018, 13, 266-281.	10.4	107
16	Simple and fast porosity analysis of concrete using X-ray computed tomography. Materials and Structures/Materiaux Et Constructions, 2016, 49, 553-562.	3.1	106
17	Comparison of medical and industrial X-ray computed tomography for non-destructive testing. Case Studies in Nondestructive Testing and Evaluation, 2016, 6, 17-25.	1.7	76
18	Hot isostatic pressing in metal additive manufacturing: X-ray tomography reveals details of pore closure. Additive Manufacturing, 2020, 34, 101191.	3.0	71

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19	Evaluating the effects of porosity on the mechanical properties of extrusion-based 3D printed concrete. Cement and Concrete Research, 2022, 153, 106695.	11.0	68
20	Effects of process parameters on porosity in laser powder bed fusion revealed by X-ray tomography. Additive Manufacturing, 2019, 30, 100871.	3.0	64
21	Ti6Al4V lightweight lattice structures manufactured by laser powder bed fusion for load-bearing applications. Optics and Laser Technology, 2018, 108, 521-528.	4.6	63
22	Application of microCT to the non-destructive testing of an additive manufactured titanium component. Case Studies in Nondestructive Testing and Evaluation, 2015, 4, 1-7.	1.7	58
23	Standard method for microCT-based additive manufacturing quality control 1: Porosity analysis. MethodsX, 2018, 5, 1102-1110.	1.6	58
24	Qualification of Ti6Al4V ELI Alloy Produced by Laser Powder Bed Fusion for Biomedical Applications. Jom, 2018, 70, 372-377.	1.9	55
25	Looking deep into nature: A review of micro-computed tomography in biomimicry. Acta Biomaterialia, 2019, 85, 27-40.	8.3	55
26	Femtosecond laser ablation of silver foil with single and double pulses. Applied Surface Science, 2010, 256, 1784-1792.	6.1	51
27	Non-destructive Estimation of Maize (Zea mays L.) Kernel Hardness by Means of an X-ray Micro-computed Tomography (Î¼CT) Density Calibration. Food and Bioprocess Technology, 2015, 8, 1419-1429.	4.7	49
28	Standardized X-ray tomography testing of additively manufactured parts: A round robin test. Additive Manufacturing, 2018, 24, 125-136.	3.0	48
29	Investigation of Porosity Changes in Cast Ti6Al4V Rods After Hot Isostatic Pressing. Journal of Materials Engineering and Performance, 2015, 24, 3137-3141.	2.5	47
30	Topology optimization and characterization of Ti6Al4V ELI cellular lattice structures by laser powder bed fusion for biomedical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138330.	5.6	47
31	Functional trade-off between strength and thermal capacity of dermal armor: Insights from girdled lizards. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 74, 189-194.	3.1	46
32	Prediction of mechanical performance of Ti6Al4V cast alloy based on microCT-based load simulation. Journal of Alloys and Compounds, 2017, 724, 267-274.	5.5	44
33	Not all scans are equal: X-ray tomography image quality evaluation. Materials Today Communications, 2020, 22, 100792.	1.9	44
34	Killer notches: The effect of as-built surface roughness on fatigue failure in AlSi10Mg produced by laser powder bed fusion. Additive Manufacturing, 2020, 35, 101424.	3.0	44
35	Fatigue performance of auxetic meta-biomaterials. Acta Biomaterialia, 2021, 126, 511-523.	8.3	44
36	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142145.	5.6	44

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37	The effects of microporosity in struts of gyroid lattice structures produced by laser powder bed fusion. Materials and Design, 2020, 194, 108899.	7.0	43
38	Analyzing nature's protective design: The glyptodont body armor. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 218-223.	3.1	40
39	Thermal conductivity in the three layered regions of micro porous layer coated porous transport layers for the PEM fuel cell. International Journal of Hydrogen Energy, 2015, 40, 16775-16785.	7.1	38
40	X-ray computed tomography of a titanium aerospace investment casting. Case Studies in Nondestructive Testing and Evaluation, 2015, 3, 21-26.	1.7	38
41	Pore Closure Effect of Laser Shock Peening of Additively Manufactured AlSi10Mg. 3D Printing and Additive Manufacturing, 2019, 6, 245-252.	2.9	36
42	Standard method for microCT-based additive manufacturing quality control 4: Metal powder analysis. MethodsX, 2018, 5, 1336-1345.	1.6	35
43	An investigation into the porosity of extrusion-based 3D printed concrete. Additive Manufacturing, 2021, 37, 101740.	3.0	35
44	Quantitative Determination of Density and Mass of Polymeric Materials Using Microfocus Computed Tomography. Journal of Nondestructive Evaluation, 2013, 32, 413-417.	2.4	33
45	Has snake fang evolution lost its bite? New insights from a structural mechanics viewpoint. Biology Letters, 2017, 13, 20170293.	2.3	32
46	Directionality of Cavities and Porosity Formation in Powder-Bed Laser Additive Manufacturing of Metal Components Investigated Using X-Ray Tomography. 3D Printing and Additive Manufacturing, 2016, 3, 48-55.	2.9	31
47	On the efficiency of machine learning for fatigue assessment of post-processed additively manufactured AlSi10Mg. International Journal of Fatigue, 2022, 160, 106841.	5.7	31
48	Quality Control of a Laser Additive Manufactured Medical Implant by X-Ray Tomography. 3D Printing and Additive Manufacturing, 2016, 3, 175-182.	2.9	30
49	Non-destructive characterisation and quantification of the effect of conventional oven and forced convection continuous tumble (FCCT) roasting on the three-dimensional microstructure of whole wheat kernels using X-ray micro-computed tomography (Î¼CT). Journal of Food Engineering, 2016, 187, 1-13.	5.2	30
50	Standard method for microCT-based additive manufacturing quality control 3: Surface roughness. MethodsX, 2018, 5, 1111-1116.	1.6	30
51	Mechanical Properties and In Situ Deformation Imaging of Microlattices Manufactured by Laser Based Powder Bed Fusion. Materials, 2018, 11, 1663.	2.9	30
52	Additive Manufacturing of Sustainable Construction Materials and Form-finding Structures: A Review on Recent Progresses. 3D Printing and Additive Manufacturing, 2022, 9, 12-34.	2.9	30
53	Three-dimensional model of an ancient Egyptian falcon mummy skeleton. Rapid Prototyping Journal, 2015, 21, 368-372.	3.2	29
54	Standard method for microCT-based additive manufacturing quality control 2: Density measurement. MethodsX, 2018, 5, 1117-1123.	1.6	29

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55	Biomimicry for 3D concrete printing: A review and perspective. Additive Manufacturing, 2021, 38, 101823.	3.0	29
56	Wavelength tunable laser beam shaping. Optics Letters, 2012, 37, 49.	3.3	28
57	A high-throughput X-ray micro-computed tomography (Î¼CT) approach for measuring single kernel maize (Zea mays L.) volumes and densities. Journal of Cereal Science, 2016, 69, 321-328.	3.7	28
58	Snake fangs: 3D morphological and mechanical analysis by microCT, simulation, and physical compression testing. GigaScience, 2018, 7, 1-8.	6.4	24
59	Non-destructive testing of parts produced by laser powder bed fusion. , 2021, , 277-300.		24
60	Role of metal 3D printing to increase quality and resource-efficiency in the construction sector. Additive Manufacturing, 2022, 50, 102541.	3.0	24
61	Pull-out creep mechanism of synthetic macro fibres under a sustained load. Construction and Building Materials, 2018, 174, 466-473.	7.2	23
62	X-ray microtomography in herpetological research: a review. Amphibia - Reptilia, 2018, 39, 377-401.	0.5	23
63	Bone regeneration on implants of titanium alloys produced by laser powder bed fusion: A review. , 2019, , 197-233.		23
64	Laboratory X-ray tomography for metal additive manufacturing: Round robin test. Additive Manufacturing, 2019, 30, 100837.	3.0	21
65	Non-destructive simulation of node defects in additively manufactured lattice structures. Additive Manufacturing, 2020, 36, 101593.	3.0	20
66	Manufacturing and characterization of in-situ alloyed Ti6Al4V(ELI)-3 at.% Cu by laser powder bed fusion. Additive Manufacturing, 2020, 36, 101436.	3.0	20
67	Use of X-ray computed tomography and 3D image analysis to characterize internal browning in â€˜Fujiâ€™ apples after exposure to CO2 stress. Scientia Horticulturae, 2021, 277, 109840.	3.6	20
68	Fatal force-feeding or Gluttonous Gagging? The death of Kestrel SACHM 2575. Journal of Archaeological Science, 2015, 63, 72-77.	2.4	19
69	Moisture content measurements in wood using dual-energy CT scanning â€“ a feasibility study. Wood Material Science and Engineering, 2016, 11, 312-317.	2.3	18
70	Effect of oven and forced convection continuous tumble (FCCT) roasting on the microstructure and dry milling properties of white maize. Innovative Food Science and Emerging Technologies, 2017, 44, 54-66.	5.6	18
71	Physico-elemental analysis of roasted organic coffee beans from Ethiopia, Colombia, Honduras, and Mexico using X-ray micro-computed tomography and external beam particle induced X-ray emission. Food Chemistry: X, 2019, 2, 100032.	4.3	18
72	Mechanisms of fatigue crack initiation and propagation in auxetic meta-biomaterials. Acta Biomaterialia, 2022, 138, 398-409.	8.3	18

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73	The quantitative analysis of tungsten ore using X-ray microCT: Case study. Computers and Geosciences, 2015, 85, 75-80.	4.2	17
74	Review of porosity uncertainty estimation methods in computed tomography dataset. Measurement Science and Technology, 2021, 32, 122001.	2.6	17
75	Shallow structure of the continental margin of southwestern Africa. Marine Geology, 1972, 13, 77-89.	2.1	16
76	Femtosecond laser induced breakdown spectroscopy of silver within surrogate high temperature gas reactor fuel coated particles. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 918-926.	2.9	16
77	Mechanical behavior of in-situ alloyed Ti6Al4V(ELI)-3 at.% Cu lattice structures manufactured by laser powder bed fusion and designed for implant applications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 113, 104130.	3.1	16
78	TENSILE PROPERTIES AND MICROSTRUCTURE OF DIRECT METAL LASER-SINTERED TI6AL4V (ELI) ALLOY. South African Journal of Industrial Engineering, 2016, 27, .	0.2	16
79	Hybrid directed energy deposition for fabricating metal structures with embedded sensors. Additive Manufacturing, 2020, 35, 101397.	3.0	14
80	Accurate Laboratory Wavelengths of the A 1 Î(Ï…â€² = 0â€“5)â€“ X 1 Îƒ + (Ï…â€³ = 0) Vibronic Bands of 12 C 17 O and 12 C 18 O. Astrophysical Journal, Supplement Series, 2006, 165, 432-437.	7.7	13
81	Quality Investigation of 3D Printer Filament Using Laboratory X-Ray Tomography. 3D Printing and Additive Manufacturing, 2016, 3, 262-267.	2.9	13
82	Beauty is more than skin deep: a nonâ€invasive protocol for inÂvivo anatomical study using microâ€CT. Methods in Ecology and Evolution, 2017, 8, 358-369.	5.2	13
83	Escaping the Labyrinth of Bioinspiration: Biodiversity as Key to Successful Product Innovation. Advanced Functional Materials, 0, , 2110235.	14.9	13
84	Investigation of four carbon monoxide isotopomers in natural abundance by laser-induced fluorescence in a supersonic jet. Journal of Molecular Spectroscopy, 2007, 243, 124-133.	1.2	12
85	The Effect of Oxygen Limitation on a Xylophagous Insectâ€™s Heat Tolerance Is Influenced by Life-Stage Through Variation in Aerobic Scope and Respiratory Anatomy. Frontiers in Physiology, 2019, 10, 1426.	2.8	12
86	Performance of concrete containing Nigerian electric arc furnace steel slag aggregate towards sustainable production. Sustainable Materials and Technologies, 2020, 25, e00174.	3.3	12
87	Monitoring of Laser Powder Bed Fusion by Acoustic Emission: Investigation of Single Tracks and Layers. Frontiers in Mechanical Engineering, 2021, 7, .	1.8	12
88	Manufacturability of lattice structures fabricated by laser powder bed fusion: A novel biomedical application of the beta Ti-21S alloy. Additive Manufacturing, 2022, 50, 102556.	3.0	12
89	Visualising and quantifying thermal degradation of wood by computed tomography. European Journal of Wood and Wood Products, 2013, 71, 387-389.	2.9	11
90	A micro X-ray computed tomography dataset of South African hermit crabs (Crustacea: Decapoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 GigaScience, 2018, 7, 1-7.	6.4	11

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91	Roughness and Near-Surface Porosity of Unsupported Overhangs Produced by High-Speed Laser Powder Bed Fusion. 3D Printing and Additive Manufacturing, 2022, 9, 288-300.	2.9	11
92	MicroCT imaging applied to description of a new species of Pagurus Fabricius, 1775 (Crustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 e0203107.	2.5	10
93	Advancing X-ray micro computed tomography in Africa: Going far, together. Scientific African, 2019, 3, e00061.	1.5	10
94	An investigation of Laser Induced Breakdown Spectroscopy for use as a control in the laser removal of rock from fossils found at the Malapa hominin site, South Africa. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 73, 48-54.	2.9	9
95	A dataset describing brooding in three species of South African brittle stars, comprising seven high-resolution, micro X-ray computed tomography scans. GigaScience, 2015, 4, 52.	6.4	9
96	Further human fossils from the Middle Stone Age deposits of Die Kelders Cave 1, Western Cape Province, South Africa. Journal of Human Evolution, 2017, 109, 70-78.	2.6	9
97	Three dimensional characterization of laser ablation craters using high resolution X-ray computed tomography. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 139, 75-82.	2.9	9
98	Productivity enhancement of laser powder bed fusion using compensated shelled geometries and hot isostatic pressing. Advances in Industrial and Manufacturing Engineering, 2021, 2, 100031.	2.1	9
99	A proof of concept demonstration of the automated laser removal of rock from a fossil using 3D X-ray tomography data. Journal of Archaeological Science, 2013, 40, 4607-4611.	2.4	8
100	X-Ray Computed Tomography of Consumer-Grade 3D-Printed Parts. 3D Printing and Additive Manufacturing, 2015, 2, 190-195.	2.9	8
101	The use of X-ray tomography in defining the spatial distribution of barite in the fluvially derived palaeosols of Vaalputs, Northern Cape Province, South Africa. Geoderma, 2016, 267, 48-57.	5.1	8
102	A micro X-ray computed tomography dataset of fossil echinoderms in an ancient obrution bed: a robust method for taphonomic and palaeoecologic analyses. GigaScience, 2019, 8, .	6.4	8
103	Porosity in laser powder bed fusion. , 2021, , 155-178.		8
104	The effect of porosity on the mechanical properties of Ti-6Al-4V components manufactured by high-power selective laser melting. International Journal of Advanced Manufacturing Technology, 2021, 115, 3589-3597.	3.0	8
105	LOOKING INSIDE VOTIVE CREATURES: COMPUTED TOMOGRAPHY (CT) SCANNING OF ANCIENT EGYPTIAN MUMMIFIED ANIMALS IN IZIKO MUSEUMS OF SOUTH AFRICA: A PRELIMINARY REPORT. Akroterion, 2012, 57, .	0.2	8
106	Thermoplastic Extrusion Additive Manufacturing of High-Performance Carbon Fiber PEEK Lattices. Crystals, 2021, 11, 1453.	2.2	8
107	Grade and product quality control by microCT scanning of the world class Namakwa Sands Ti-Zr placer deposit West Coast, South Africa: An orientation study. Minerals Engineering, 2018, 116, 152-162.	4.3	7
108	Xâ€ray tomography for the advancement of laser powder bed fusion additive manufacturing. Journal of Microscopy, 2022, 285, 121-130.	1.8	7

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109	Unit cell estimation of volumetrically-varying permittivity in additively-manufactured ceramic lattices with X-ray computed tomography. Materials and Design, 2021, 210, 110032.	7.0	7
110	Characterization of surface roughness and subsurface pores and their effect on corrosion in 3D-printed AlSilOMg. Journal of the South African Institute of Mining and Metallurgy, 2020, 120, .	0.5	7
111	Corrosion fatigue of Tiâ€6Alâ€4V coupons manufactured by directed energy deposition. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 1969-1980.	3.4	7
112	Laser induced and controlled chemical reaction of carbon monoxide and hydrogen. Journal of Chemical Physics, 2011, 135, 204303.	3.0	6
113	Using CT-scanning technology to quantify damage of the stem-boring beetle, Aphanasium australe, a biocontrol agent of Hakea sericea in South Africa. Biocontrol Science and Technology, 2020, 30, 33-41.	1.3	6
114	Using ÂµCT in live larvae of a large wood-boring beetle to study tracheal oxygen supply during development. Journal of Insect Physiology, 2021, 130, 104199.	2.0	6
115	Mechanical properties of material jetted zirconia complex geometries with hot isostatic pressing. Advances in Industrial and Manufacturing Engineering, 2021, 3, 100052.	2.1	6
116	A Digital-Twin Methodology for the Non-destructive Certification of Lattice Structures. Jom, 2022, 74, 1784-1797.	1.9	6
117	A mechanistic evaluation relating microstructural morphology to a modified Mohr-Griffith compression-shear constitutive model for 3D printed concrete. Construction and Building Materials, 2022, 325, 126743.	7.2	6
118	Eastward transport of the Monapo Klippe, Mozambique determined from field kinematics and computed tomography and implications for late tectonics in central Gondwana. Precambrian Research, 2013, 237, 101-115.	2.7	5
119	Laser-induced breakdown spectroscopy and inductively coupled plasma-mass spectrometry for determination of Cr in soils from Brits District, South Africa. Bulletin of the Chemical Society of Ethiopia, 2015, 29, 357.	1.1	5
120	Application of microCT scanning in the recovery of endo-skarn associated scheelite from the Riviera Deposit, South Africa. Minerals Engineering, 2018, 116, 163-178.	4.3	5
121	X-Ray Computed Tomography Inspection in Metal Additive Manufacturing: The Role of Witness Specimens. , 2020, , 139-156.		5
122	Using X-ray computed tomography analysis tools to compare the skeletal element morphology of fossil and modern frog (Anura) species. Palaeontologia Electronica, 0, , .	0.9	5
123	TENSILE AND HIGH CYCLE FATIGUE PROPERTIES OF ANNEALED TI6AL4V (ELI) SPECIMENS PRODUCED BY DIRECT METAL LASER SINTERING. South African Journal of Industrial Engineering, 2018, 29, .	0.2	5
124	Functional synergy of biomimicry and additive manufacturing: Toward a bio-enhanced engineering approach. , 2022, , 269-289.		5
125	Osteoderms as calcium reservoirs: Insights from the lizard Ouroborus cataphractus. Journal of Anatomy, 2022, 241, 635-640.	1.5	5
126	Surface roughness. , 2021, , 179-213.		4

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127	ACCURATE LABORATORY WAVELENGTHS OF THE e ³ Î£ ^{â€“} (Î½â€² = 5) â€“ X ¹ Î£ ⁺ (Î½â€³ = 0) BAND OF ¹² C ¹⁶ O. Astrophysical Journal Letters, 2010, 714, L268-L270.	8.3	3
128	Nano X-ray tomography analysis of the cell-wall density of welded beech joints. Wood Material Science and Engineering, 2015, 10, 368-372.	2.3	3
129	Microcomputer tomography (microCT) as a tool in Pinus tree breeding: pilot studies. New Zealand Journal of Forestry Science, 2017, 47, .	0.8	3
130	Investigating Basal Autophagic Activity in Brain Regions Associated with Neurodegeneration using In Vivo and Ex Vivo Models. , 2017, 07, .		3
131	Human manual distal phalanges from the Middle Stone Age deposits of Klasies River Main Site, Western Cape Province, South Africa. Journal of Human Evolution, 2020, 146, 102849.	2.6	3
132	Characterization of Coloured Gemstones by X-ray Micro Computed Tomography. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	3
133	Challenges and Approaches for Metrology of Additive Manufactured Lattice Structures by Industrial X-Ray Computed Tomography. Advanced Materials Research, 0, 1161, 131-136.	0.3	3
134	Data for 3D printing enlarged museum specimens for the visually impaired. GigaByte, 0, 2020, 1-7.	0.0	3
135	Microfocus X-Ray Computed Tomography (CT) Analysis Of Laser Sintered Parts. South African Journal of Industrial Engineering, 2014, 25, 39.	0.2	3
136	Fatigue performance of shelled additively manufactured parts subjected to hot isostatic pressing. Additive Manufacturing, 2022, 51, 102607.	3.0	3
137	Comparison of infrared laser beam shaping by diffractive and refractive methods. , 2005, 5876, 138.		2
138	Femtosecond pump probe spectroscopy for the study of energy transfer of light-harvesting complexes from extractions of spinach leaves. South African Journal of Science, 2010, 105, .	0.7	2
139	Comparative Study of the Dissociative Ionization of 1,1,1 Trichloroethane Using Nanosecond and Femtosecond Laser Pulses. International Journal of Molecular Sciences, 2010, 11, 1114-1140.	4.1	2
140	Assessment of the concentration of Cr, Mn and Fe in sediment using laser-induced breakdown spectroscopy. Bulletin of the Chemical Society of Ethiopia, 2012, 27, .	1.1	2
141	Comparison and quality testing of polymer non-woven postharvest preservation sheets using X-ray tomography. Acta Horticulturae, 2018, , 363-370.	0.2	2
142	Enamel pearls: Their occurrence in recent human populations and earliest manifestation in the modern human lineage. Archives of Oral Biology, 2019, 101, 147-155.	1.8	2
143	MicroCT-based bulk density measurement method for soils. Journal of the South African Institution of Civil Engineering, 2019, 61, .	0.3	2
144	Systematic revision of Afrogecko ansorgii (Boulenger, 1907) (Sauria: Gekkonidae) from western Angola. Zootaxa, 2022, 5124, 401-430.	0.5	2

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145	Laser powder bed fusion of polyamide-composite for antibacterial applications: Characterization and properties. Materials Today Communications, 2022, 31, 103727.	1.9	2
146	Counter-terrorism and Pan-Africanism: From non-action to non-indifference. , 2014, , .		1
147	3D X-Ray Inspection of a Radio Controlled Airplane Engine. Materials Science Forum, 0, 828-829, 433-438.	0.3	1
148	Non-destructive, high-resolution X-ray micro-CT of a Hairy Stalagmite: investigating the structural details of a biogenic speleothem. International Journal of Environmental Science and Technology, 2018, 15, 1843-1850.	3.5	1
149	Analysis of the 3D microstructure of pomegranate peel tissue using X-ray micro-CT. Acta Horticulturae, 2018, , 197-204.	0.2	1
150	Dimensional metrology of additively manufactured lattice structures by combined tactile probe and Xâ€ray tomography. Material Design and Processing Communications, 0, , .	0.9	1
151	Non-Destructive Inspection of Sacrificial 3D Sand-Printed Molds with Geometrically Complex Lattice Cavities. International Journal of Metalcasting, 0, , 1.	1.9	1
152	African perceptions of UN sanctions. , 2017, , .		1
153	INFLUENCE OF LARGE ARTIFICIAL POROSITY ON BENDING BEHAVIOUR OF TI6AL4V ELI ADDITIVELY MANUFACTURED SPECIMENS SUBJECTED TO TYPICAL LOADS DURING MASTICATION. South African Journal of Industrial Engineering, 2020, 31, .	0.2	1
154	Hard target UV lidar measurements of isoprene mixing ratios and emission rates from eucalyptus trees. Applied Optics, 2007, 46, 6344.	2.1	0
155	Fast- and ultra-fast laser pulse induced reactions between carbon dioxide and methane. Journal of Natural Gas Chemistry, 2010, 19, 198-202.	1.8	0
156	Optimal control of the population dynamics of the ground vibrational state of a polyatomic molecule. Proceedings of SPIE, 2011, , .	0.8	0
157	Faster learning algorithm convergence utilizing a combined time-frequency representation as basis. Proceedings of SPIE, 2013, , .	0.8	0
158	Redescription and notes on the ecology of Pagurapseudes dentatus (Brown, 1956) (Peracarida:) Tj ETQq0 0 0 rgBT /Overlock 10 T 715-724.	0.8	0
159	X-ray micro-tomographic data of live larvae of the beetle Cacosceles newmannii. GigaByte, 0, 2021, 1-8.	0.0	0
160	Structural integrity III. , 2021, , 395-422.		0
161	Generation of VUV radiation in a metal vapour and its applications to Spectroscopy. , 2008, , .		0
162	Interview with Shaun Abrahams, National Director of Public Prosecutions. South African Crime Quarterly, 2016, , .	0.2	0

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163	Temperature determination in a supersonic gas jet from self-absorption free excitation spectra of carbon monoxide. , 2017, , .		0
164	On The Evaluation of Surface Roughness: X-Ray Tomography Reveals Hidden Details. , 2022, , 208-222.		0
165	Post-Processing of Metal Additively Manufactured Components. , 2022, , 307-404.		0
166	Emerging Additive Manufacturing Technology for Propulsion. , 2022, , 645-716.		0