# 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 | Xâ€ray tomography for the advancement of laser powder bed fusion additive manufacturing. Journal of Microscopy, 2022, 285, 121-130. | 1.8 | 7 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Mechanisms of fatigue crack initiation and propagation in auxetic meta-biomaterials. Acta Biomaterialia, 2022, 138, 398-409. | 8.3 | 18 |
| 6 | Role of metal 3D printing to increase quality and resource-efficiency in the construction sector. Additive Manufacturing, 2022, 50, 102541. | 3.0 | 24 |
| 7 | Fatigue performance of shelled additively manufactured parts subjected to hot isostatic pressing. Additive Manufacturing, 2022, 51, 102607. | 3.0 | 3 |
| 8 | 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 |
| 9 | 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 |
| 10 | Properties and applications of additively manufactured metallic cellular materials: A review. Progress in Materials Science, 2022, 125, 100918. | 32.8 | 164 |
| 11 | Functional synergy of biomimicry and additive manufacturing: Toward a bio-enhanced engineering approach. , 2022, , 269-289. | | 5 |
| 12 | A Digital-Twin Methodology for the Non-destructive Certification of Lattice Structures. Jom, 2022, 74, 1784-1797. | 1.9 | 6 |
| 13 | 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 |
| 14 | Systematic revision of Afrogecko ansorgii (Boulenger, 1907) (Sauria: Gekkonidae) from western Angola. Zootaxa, 2022, 5124, 401-430. | 0.5 | 2 |
| 15 | 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 |
| 16 | On The Evaluation of Surface Roughness: X-Ray Tomography Reveals Hidden Details. , 2022, , 208-222. | | 0 |
| 17 | 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 |
| 18 | Osteoderms as calcium reservoirs: Insights from the lizard Ouroborus cataphractus. Journal of Anatomy, 2022, 241, 635-640. | 1.5 | 5 |

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| 19 | Laser powder bed fusion of polyamide-composite for antibacterial applications: Characterization and properties. Materials Today Communications, 2022, 31, 103727. | 1.9 | 2 |
| 20 | Post-Processing of Metal Additively Manufactured Components. , 2022, , 307-404. | | 0 |
| 21 | Emerging Additive Manufacturing Technology for Propulsion. , 2022, , 645-716. | | 0 |
| 22 | 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 |
| 23 | An investigation into the porosity of extrusion-based 3D printed concrete. Additive Manufacturing, 2021, 37, 101740. | 3.0 | 35 |
| 24 | 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 |
| 25 | Surface roughness. , 2021, , 179-213. | | 4 |
| 26 | Porosity in laser powder bed fusion. , 2021, , 155-178. | | 8 |
| 27 | Non-destructive testing of parts produced by laser powder bed fusion. , 2021, , 277-300. | | 24 |
| 28 | X-ray computed tomography. Nature Reviews Methods Primers, 2021, 1, . | 21.2 | 305 |
| 29 | Characterization of Coloured Gemstones by X-ray Micro Computed Tomography. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.0 | 3 |
| 30 | Biomimicry for 3D concrete printing: A review and perspective. Additive Manufacturing, 2021, 38, 101823. | 3.0 | 29 |
| 31 | 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 |
| 32 | 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 |
| 33 | Fatigue performance of auxetic meta-biomaterials. Acta Biomaterialia, 2021, 126, 511-523. | 8.3 | 44 |
| 34 | 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 |
| 35 | Monitoring of Laser Powder Bed Fusion by Acoustic Emission: Investigation of Single Tracks and Layers. Frontiers in Mechanical Engineering, 2021, 7, . | 1.8 | 12 |
| 36 | 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 |

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| 37 | Review of porosity uncertainty estimation methods in computed tomography dataset. Measurement Science and Technology, 2021, 32, 122001. | 2.6 | 17 |
| 38 | Mechanical properties of material jetted zirconia complex geometries with hot isostatic pressing. Advances in Industrial and Manufacturing Engineering, 2021, 3, 100052. | 2.1 | 6 |
| 39 | Metal additive manufacturing in aerospace: A review. Materials and Design, 2021, 209, 110008. | 7.0 | 743 |
| 40 | 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 |
| 41 | Structural integrity III. , 2021, , 395-422. | | 0 |
| 42 | Thermoplastic Extrusion Additive Manufacturing of High-Performance Carbon Fiber PEEK Lattices. Crystals, 2021, 11, 1453. | 2.2 | 8 |
| 43 | 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 |
| 44 | 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 |
| 45 | Not all scans are equal: X-ray tomography image quality evaluation. Materials Today Communications, 2020, 22, 100792. | 1.9 | 44 |
| 46 | Non-destructive simulation of node defects in additively manufactured lattice structures. Additive Manufacturing, 2020, 36, 101593. | 3.0 | 20 |
| 47 | 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 |
| 48 | Redescription and notes on the ecology of Pagurapseudes dentatus (Brown, 1956) (Peracarida:) Tj ETQq0 0 0 rgBT /Overlock 10 T<br>715-724. | 0.8 | 0 |
| 49 | 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 |
| 50 | Hybrid directed energy deposition for fabricating metal structures with embedded sensors. Additive Manufacturing, 2020, 35, 101397. | 3.0 | 14 |
| 51 | 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 |
| 52 | 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 |
| 53 | Performance of concrete containing Nigerian electric arc furnace steel slag aggregate towards sustainable production. Sustainable Materials and Technologies, 2020, 25, e00174. | 3.3 | 12 |
| 54 | 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 |

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| 55 | Hot isostatic pressing in metal additive manufacturing: X-ray tomography reveals details of pore closure. Additive Manufacturing, 2020, 34, 101191. | 3.0 | 71 |
| 56 | X-Ray Computed Tomography Inspection in Metal Additive Manufacturing: The Role of Witness Specimens. , 2020, , 139-156. | | 5 |
| 57 | Characterization of surface roughness and subsurface pores and their effect on corrosion in 3D-printed AlSi10Mg. Journal of the South African Institute of Mining and Metallurgy, 2020, 120, . | 0.5 | 7 |
| 58 | 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 |
| 59 | Effects of process parameters on porosity in laser powder bed fusion revealed by X-ray tomography. Additive Manufacturing, 2019, 30, 100871. | 3.0 | 64 |
| 60 | Bone regeneration on implants of titanium alloys produced by laser powder bed fusion: A review. , 2019, , 197-233. | | 23 |
| 61 | Pore Closure Effect of Laser Shock Peening of Additively Manufactured AlSi10Mg. 3D Printing and Additive Manufacturing, 2019, 6, 245-252. | 2.9 | 36 |
| 62 | Laboratory X-ray tomography for metal additive manufacturing: Round robin test. Additive Manufacturing, 2019, 30, 100837. | 3.0 | 21 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | Advancing X-ray micro computed tomography in Africa: Going far, together. Scientific African, 2019, 3, e00061. | 1.5 | 10 |
| 67 | Beautiful and Functional: A Review of Biomimetic Design in Additive Manufacturing. Additive Manufacturing, 2019, 27, 408-427. | 3.0 | 199 |
| 68 | 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 |
| 69 | Looking deep into nature: A review of micro-computed tomography in biomimicry. Acta Biomaterialia, 2019, 85, 27-40. | 8.3 | 55 |
| 70 | A review of X-ray computed tomography of concrete and asphalt construction materials. Construction and Building Materials, 2019, 199, 637-651. | 7.2 | 185 |
| 71 | 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 |
| 72 | MicroCT-based bulk density measurement method for soils. Journal of the South African Institution of Civil Engineering, 2019, 61, . | 0.3 | 2 |

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| 73 | Analyzing nature's protective design: The glyptodont body armor. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 218-223. | 3.1 | 40 |
| 74 | Snake fangs: 3D morphological and mechanical analysis by microCT, simulation, and physical compression testing. GigaScience, 2018, 7, 1-8. | 6.4 | 24 |
| 75 | Pull-out creep mechanism of synthetic macro fibres under a sustained load. Construction and Building Materials, 2018, 174, 466-473. | 7.2 | 23 |
| 76 | A micro X-ray computed tomography dataset of South African hermit crabs (Crustacea: Decapoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 GigaScience, 2018, 7, 1-7. | 6.4 | 11 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | Qualification of Ti6Al4V ELI Alloy Produced by Laser Powder Bed Fusion for Biomedical Applications. Jom, 2018, 70, 372-377. | 1.9 | 55 |
| 82 | Analysis of the 3D microstructure of pomegranate peel tissue using X-ray micro-CT. Acta Horticulturae, 2018, , 197-204. | 0.2 | 1 |
| 83 | X-ray microtomography in herpetological research: a review. Amphibia - Reptilia, 2018, 39, 377-401. | 0.5 | 23 |
| 84 | Comparison and quality testing of polymer non-woven postharvest preservation sheets using X-ray tomography. Acta Horticulturae, 2018, , 363-370. | 0.2 | 2 |
| 85 | MicroCT imaging applied to description of a new species of Pagurus Fabricius, 1775 (Crustacea:) Tj ETQq1 1 0.784314 rgBT /Overlock e0203107. | 2.5 | 10 |
| 86 | Standard method for microCT-based additive manufacturing quality control 4: Metal powder analysis. MethodsX, 2018, 5, 1336-1345. | 1.6 | 35 |
| 87 | 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 |
| 88 | Standardized X-ray tomography testing of additively manufactured parts: A round robin test. Additive Manufacturing, 2018, 24, 125-136. | 3.0 | 48 |
| 89 | Standard method for microCT-based additive manufacturing quality control 3: Surface roughness. MethodsX, 2018, 5, 1111-1116. | 1.6 | 30 |
| 90 | Standard method for microCT-based additive manufacturing quality control 1: Porosity analysis. MethodsX, 2018, 5, 1102-1110. | 1.6 | 58 |

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| 91 | Standard method for microCT-based additive manufacturing quality control 2: Density measurement. MethodsX, 2018, 5, 1117-1123. | 1.6 | 29 |
| 92 | Mechanical Properties and In Situ Deformation Imaging of Microlattices Manufactured by Laser Based Powder Bed Fusion. Materials, 2018, 11, 1663. | 2.9 | 30 |
| 93 | Numerical comparison of lattice unit cell designs for medical implants by additive manufacturing. Virtual and Physical Prototyping, 2018, 13, 266-281. | 10.4 | 107 |
| 94 | 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 |
| 95 | 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 |
| 96 | Microcomputer tomography (microCT) as a tool in Pinus tree breeding: pilot studies. New Zealand Journal of Forestry Science, 2017, 47, . | 0.8 | 3 |
| 97 | 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 |
| 98 | 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 |
| 99 | Has snake fang evolution lost its bite? New insights from a structural mechanics viewpoint. Biology Letters, 2017, 13, 20170293. | 2.3 | 32 |
| 100 | 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 |
| 101 | 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 |
| 102 | Verification of authenticity and fraud detection in South African honey using NIR spectroscopy. Food Control, 2017, 73, 1388-1396. | 5.5 | 145 |
| 103 | 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 |
| 104 | Laboratory x-ray micro-computed tomography: a user guideline for biological samples. GigaScience, 2017, 6, 1-11. | 6.4 | 164 |
| 105 | Investigating Basal Autophagic Activity in Brain Regions Associated with Neurodegeneration using In Vivo and Ex Vivo Models. , 2017, 07, . | | 3 |
| 106 | African perceptions of UN sanctions. , 2017, , . | | 1 |
| 107 | Temperature determination in a supersonic gas jet from self-absorption free excitation spectra of carbon monoxide. , 2017, , . | | 0 |
| 108 | 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 |

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| 109 | Deformation Behavior and Microstructure of Ti6Al4V Manufactured by SLM. Physics Procedia, 2016, 83, 778-788. | 1.2 | 120 |
| 110 | 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 |
| 111 | Quality Investigation of 3D Printer Filament Using Laboratory X-Ray Tomography. 3D Printing and Additive Manufacturing, 2016, 3, 262-267. | 2.9 | 13 |
| 112 | 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 |
| 113 | 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 |
| 114 | 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 |
| 115 | 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 |
| 116 | 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 |
| 117 | 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 |
| 118 | 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 |
| 119 | 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 |
| 120 | TENSILE PROPERTIES AND MICROSTRUCTURE OF DIRECT METAL LASER-SINTERED TI6AL4V (ELI) ALLOY. South African Journal of Industrial Engineering, 2016, 27, . | 0.2 | 16 |
| 121 | Interview with Shaun Abrahams, National Director of Public Prosecutions. South African Crime Quarterly, 2016, , . | 0.2 | 0 |
| 122 | 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 |
| 123 | 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 |
| 124 | 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 |
| 125 | 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 |
| 126 | Three-dimensional model of an ancient Egyptian falcon mummy skeleton. Rapid Prototyping Journal, 2015, 21, 368-372. | 3.2 | 29 |

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| 127 | 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 |
| 128 | X-ray computed tomography of a titanium aerospace investment casting. Case Studies in Nondestructive Testing and Evaluation, 2015, 3, 21-26. | 1.7 | 38 |
| 129 | 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 |
| 130 | X-Ray Computed Tomography of Consumer-Grade 3D-Printed Parts. 3D Printing and Additive Manufacturing, 2015, 2, 190-195. | 2.9 | 8 |
| 131 | Fatal force-feeding or Gluttonous Gagging? The death of Kestrel SACHM 2575. Journal of Archaeological Science, 2015, 63, 72-77. | 2.4 | 19 |
| 132 | The quantitative analysis of tungsten ore using X-ray microCT: Case study. Computers and Geosciences, 2015, 85, 75-80. | 4.2 | 17 |
| 133 | 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 |
| 134 | Counter-terrorism and Pan-Africanism: From non-action to non-indifference. , 2014, , . | | 1 |
| 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 | Quantitative Determination of Density and Mass of Polymeric Materials Using Microfocus Computed Tomography. Journal of Nondestructive Evaluation, 2013, 32, 413-417. | 2.4 | 33 |
| 137 | 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 |
| 138 | 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 |
| 139 | Visualising and quantifying thermal degradation of wood by computed tomography. European Journal of Wood and Wood Products, 2013, 71, 387-389. | 2.9 | 11 |
| 140 | Faster learning algorithm convergence utilizing a combined time-frequency representation as basis. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 141 | Wavelength tunable laser beam shaping. Optics Letters, 2012, 37, 49. | 3.3 | 28 |
| 142 | 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 |
| 143 | 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 |
| 144 | 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 |

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| 145 | Laser induced and controlled chemical reaction of carbon monoxide and hydrogen. Journal of Chemical Physics, 2011, 135, 204303. | 3.0 | 6 |
| 146 | Optimal control of the population dynamics of the ground vibrational state of a polyatomic molecule. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 147 | ACCURATE LABORATORY WAVELENGTHS OF THE e <sup>3</sup> Î£ <sup>â€“</sup> (Î½â€² = 5) â€“ X <sup>1</sup> Î£ <sup>+</sup> (Î½â€³ = 0) BAND OF <sup>12</sup> C <sup>16</sup> O. Astrophysical Journal Letters, 2010, 714, L268-L270. | 8.3 | 3 |
| 148 | Femtosecond laser ablation of silver foil with single and double pulses. Applied Surface Science, 2010, 256, 1784-1792. | 6.1 | 51 |
| 149 | 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 |
| 150 | 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 |
| 151 | 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 |
| 152 | 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 |
| 153 | Generation of VUV radiation in a metal vapour and its applications to Spectroscopy. , 2008, , . | | 0 |
| 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 | 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 |
| 156 | Accurate Laboratory Wavelengths of the A 1 Î(Ï…â€² = 0â€“5)â€“ X 1 Î£ + (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 |
| 157 | Comparison of infrared laser beam shaping by diffractive and refractive methods. , 2005, 5876, 138. | | 2 |
| 158 | Shallow structure of the continental margin of southwestern Africa. Marine Geology, 1972, 13, 77-89. | 2.1 | 16 |
| 159 | 3D X-Ray Inspection of a Radio Controlled Airplane Engine. Materials Science Forum, 0, 828-829, 433-438. | 0.3 | 1 |
| 160 | Dimensional metrology of additively manufactured lattice structures by combined tactile probe and Xâ€ray tomography. Material Design and Processing Communications, 0, , . | 0.9 | 1 |
| 161 | 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 |
| 162 | X-ray micro-tomographic data of live larvae of the beetle Cacosceles newmannii. GigaByte, 0, 2021, 1-8. | 0.0 | 0 |

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