

Daniel D Wamwangi

List of Publications by Year in descending order

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53
papers

1,316
citations

567281

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345221

36
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54
all docs

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docs citations

54
times ranked

1648
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of the thickness of the sandwiched layer and of the annealing time on induced nanostructures during solid state dewetting of a metal-semiconductor-substrate triple layer structure. <i>Surfaces and Interfaces</i> , 2022, 29, 101783.	3.0	1
2	Enhanced adhesion of anticorrosion ruthenium films deposited by RF sputtering on 304L stainless steel. <i>Surface and Coatings Technology</i> , 2022, 438, 128381.	4.8	3
3	Synthesis of Novel Conjugated Linoleic Acid (CLA)-Coated Superparamagnetic Iron Oxide Nanoparticles (SPIONs) for the Delivery of Paclitaxel with Enhanced In Vitro Anti-Proliferative Activity on A549 Lung Cancer Cells. <i>Pharmaceutics</i> , 2022, 14, 829.	4.5	8
4	Elastic properties and lattice thermal conductivity of amorphous Ge ₂ Sb ₂ Te ₅ and GeTe thin films. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	6
5	Elucidating the Trajectory of the Charge Transfer Mechanism and Recombination Process of Hybrid Perovskite Solar Cells. <i>Materials</i> , 2021, 14, 2698.	2.9	5
6	The role of carrier gas on the structural properties of carbon coated GaN. <i>Materials Today Communications</i> , 2021, 27, 102325.	1.9	0
7	Indirect and direct excitation of Nd ³⁺ ions in as-deposited and annealed Nd ³⁺ -doped ZnO films. <i>Journal of Luminescence</i> , 2021, 237, 118198.	3.1	0
8	Tuning structural, electrical and mechanical properties of diamond-like carbon films by substrate bias voltage. <i>Materials Today Communications</i> , 2021, 28, 102501.	1.9	1
9	Elastic and magnetic properties of Tb-MnO based thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168199.	2.3	0
10	The role of oxygen in a carbon source (castor oil versus paraffin oil) in the synthesis of carbon nano-onions. <i>Nanotechnology</i> , 2021, 32, 135603.	2.6	3
11	All-digital 3-dimensional profilometry of nano-scaled surfaces with spatial light modulators. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	5
12	Efficiency enhancement of organic solar cell using surface plasmon resonance effects of Ag nanoparticles. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	2
13	Site-selective laser spectroscopy and defect configurations of the Nd ³⁺ -Li ⁺ centres in ZnO powders. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153306.	5.5	3
14	Correlating Phase Behavior with Photophysical Properties in Mixed-Cation Mixed-Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , 2020, 10, 1901350.	19.5	17
15	Perovskite solar cells: The new epoch in photovoltaics. <i>Solar Energy</i> , 2020, 196, 295-309.	6.1	53
16	The impact of synthesis techniques on the properties of hybrid perovskite materials for photovoltaic application. <i>Materials Express</i> , 2020, 10, 1127-1134.	0.5	2
17	Dark and illuminated J(V) characteristics of thin layered bulk heterojunction P3HT:PCBM sandwich solar cells after thermal treatment. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	6
18	Formation of monodispersed carbon nanospheres by pulsed laser irradiation of HOPG. <i>Materials Chemistry and Physics</i> , 2020, 253, 123269.	4.0	1

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19	Dependence of mobility and charge injection on active layer thickness of bulk heterojunction organic solar cells: PCBM:P3HT. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	8
20	Surface Brillouin scattering study of tantalum nitride (TaN) thin films. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, C125.	1.5	7
21	Role of oxygen concentrations on structural and optical properties of RF magnetron sputtered ZnO thin films. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	6
22	Bias voltage effect on magnetron sputtered titanium aluminum nitride TiAlN thin films properties. <i>EPJ Applied Physics</i> , 2019, 86, 30301.	0.7	2
23	Effect of implantation of Sm ⁺ ions into RF sputtered ZnO thin film. <i>AIP Advances</i> , 2019, 9, .	1.3	10
24	The Effect of Sputtered Pt ₄₀ Pd ₅₇ Al ₃ Thin Film Thickness on SO ₂ (aq) Electro-Oxidation. <i>Electrocatalysis</i> , 2019, 10, 399-405.	3.0	1
25	DNA hybridisation sensors for product authentication and tracing: State of the art and challenges. <i>South African Journal of Chemical Engineering</i> , 2019, 27, 16-34.	2.4	4
26	Effect of Gold Nanospheres and Nanodots on the Performance of PEDOT:PSS Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2747-2754.	0.9	2
27	Role of microstructure and stress evolution on the elastic constants of multiferroic oxide-based thin films. , 2019, , .		0
28	Magnetic properties of aligned iron containing nitrogen-doped multi-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2018, 209, 280-290.	4.0	8
29	Towards Practical Applications of EQCN Experiments to Study Pt Anchor Sites on Carbon Surfaces. <i>Electrocatalysis</i> , 2018, 9, 271-278.	3.0	3
30	Optoelectronic and mechanical properties of PVD diamond-like carbon films. <i>Materials Today: Proceedings</i> , 2018, 5, 27307-27315.	1.8	5
31	Cathodic modification of stainless steels with ruthenium: a review of recent advances in making the cheaper option cheaper. <i>Corrosion Reviews</i> , 2018, 36, 495-505.	2.0	0
32	Effect of thermal treatment on ZnO:Tb ³⁺ nano-crystalline thin films and application for spectral conversion in inverted organic solar cells. <i>RSC Advances</i> , 2018, 8, 29274-29282.	3.6	12
33	Enhancement of organic photovoltaic device performance via P3HT:PCBM solution heat treatment. <i>Thin Solid Films</i> , 2017, 625, 62-69.	1.8	17
34	Surface Brillouin scattering observation of higher order resonances in annealed, ion-implanted CVD diamond. <i>Diamond and Related Materials</i> , 2017, 76, 171-176.	3.9	4
35	Hollow carbon spheres and a hollow carbon sphere/polyvinylpyrrolidone composite as ammonia sensors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2539-2549.	10.3	38
36	Structural and spectroscopic analysis of <i>ex-situ</i> annealed RF sputtered aluminium doped zinc oxide thin films. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	7

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37	Improved efficiency of organic solar cells using Au NPs incorporated into PEDOT:PSS buffer layer. AIP Advances, 2017, 7, .	1.3	35
38	Generation of radical species in CVD grown pristine and N-doped solid carbon spheres using H ₂ and Ar as carrier gases. RSC Advances, 2017, 7, 21187-21195.	3.6	22
39	Corrosion performance of pulse plated ruthenium: Dependence on pulse-off time. Surface and Coatings Technology, 2016, 307, 971-977.	4.8	3
40	Generation of open-ended, worm-like and graphene-like structures from layered spherical carbon materials. RSC Advances, 2016, 6, 20399-20408.	3.6	8
41	Annealed silver-islands for enhanced optical absorption in organic solar cell. Thin Solid Films, 2016, 598, 177-183.	1.8	16
42	Plasmonic Ag nanoparticle interlayers for organic photovoltaic cells: An investigation of dielectric properties and light trapping. Solar Energy, 2015, 118, 256-266.	6.1	13
43	Phase change memory based on SnSe ₄ alloy. Thin Solid Films, 2013, 527, 323-326.	1.8	3
44	Phase change materials: From structures to kinetics. Journal of Materials Research, 2007, 22, 2368-2375.	2.6	17
45	The role of vacancies and local distortions in the design of new phase-change materials. Nature Materials, 2007, 6, 122-128.	27.5	426
46	Effect of indium doping on Ge ₂ Sb ₂ Te ₅ thin films for phase-change optical storage. Applied Physics A: Materials Science and Processing, 2005, 80, 1611-1616.	2.3	71
47	Assessment of Se based phase change alloy as a candidate for non-volatile electronic memory applications. Applied Physics A: Materials Science and Processing, 2005, 81, 1601-1605.	2.3	21
48	Influence of Bi doping upon the phase change characteristics of Ge ₂ Sb ₂ Te ₅ . Journal of Applied Physics, 2004, 96, 5557-5562.	2.5	92
49	Identifying Au-based Te alloys for optical data storage. Journal of Applied Physics, 2004, 95, 7567-7572.	2.5	5
50	Influence of Sn doping upon the phase change characteristics of Ge ₂ Sb ₂ Te ₅ . Physica Status Solidi A, 2004, 201, 3087-3095.	1.7	41
51	Identification of Te alloys with suitable phase change characteristics. Applied Physics Letters, 2003, 83, 2572-2574.	3.3	71
52	Crystallization kinetics of Ge ₄ Sb ₁ Te ₅ films. Thin Solid Films, 2002, 408, 310-315.	1.8	72
53	Mechanical stresses upon crystallization in phase change materials. Applied Physics Letters, 2001, 79, 3597-3599.	3.3	150