

Dorian A H Hanaor

List of Publications by Year in descending order

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59
papers

5,531
citations

147801

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155660

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all docs

59
docs citations

59
times ranked

8916
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of syntheses approaches towards functional polycrystalline silicate ceramics. <i>Open Ceramics</i> , 2022, 9, 100241.	2.0	3
2	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. <i>Chemosphere</i> , 2022, 303, 134932.	8.2	32
3	Bispropylurea bridged polysilsesquioxane: A microporous MOF-like material for molecular recognition. <i>Chemosphere</i> , 2021, 276, 130181.	8.2	14
4	Exceptionally high saturation magnetisation in Eu-doped magnetite stabilised by spin-orbit interaction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20129-20137.	2.8	10
5	Cu-Modified SrTiO ₃ Perovskites Toward Enhanced Water-Gas Shift Catalysis: A Combined Experimental and Computational Study. <i>ACS Applied Energy Materials</i> , 2021, 4, 452-461.	5.1	15
6	Enhancement of hydroxyapatite dissolution through structure modification by Krypton ion irradiation. <i>Journal of Materials Science and Technology</i> , 2020, 38, 148-158.	10.7	18
7	Polymer-Derived SiOC Integrated with a Graphene Aerogel As a Highly Stable Li-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46045-46056.	8.0	66
8	Freeze Casting: From Low-Dimensional Building Blocks to Aligned Porous Structures—A Review of Novel Materials, Methods, and Applications. <i>Advanced Materials</i> , 2020, 32, e1907176.	21.0	404
9	Contact behaviour of simulated rough spheres generated with spherical harmonics. <i>International Journal of Solids and Structures</i> , 2020, 193-194, 54-68.	2.7	13
10	Materials and Applications for Low-Cost Ceramic Membranes. <i>Membranes</i> , 2019, 9, 105.	3.0	106
11	Theoretical insights into the hydrophobicity of low index CeO ₂ surfaces. <i>Applied Surface Science</i> , 2019, 478, 68-74.	6.1	45
12	The effects of packing structure on the effective thermal conductivity of granular media: A grain scale investigation. <i>International Journal of Thermal Sciences</i> , 2019, 142, 266-279.	4.9	47
13	Modes of wall induced granular crystallisation in vibrational packing. <i>Granular Matter</i> , 2019, 21, 1.	2.2	32
14	Additive manufacturing of ceramics from preceramic polymers: A versatile stereolithographic approach assisted by thiol-ene click chemistry. <i>Additive Manufacturing</i> , 2019, 27, 80-90.	3.0	98
15	Tailoring porous media for controllable capillary flow. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 379-387.	9.4	20
16	Improved oxidation resistance of high emissivity coatings on fibrous ceramic for reusable space systems. <i>Corrosion Science</i> , 2019, 146, 233-246.	6.6	34
17	Multiscale modeling of the effective elastic properties of fluid-filled porous materials. <i>International Journal of Solids and Structures</i> , 2019, 162, 36-44.	2.7	7
18	Tuning capillary penetration in porous media: Combining geometrical and evaporation effects. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 239-250.	4.8	31

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19	Nanostructural insights into the dissolution behavior of Sr-doped hydroxyapatite. Journal of the European Ceramic Society, 2018, 38, 5554-5562.	5.7	44
20	Dynamics of Viscous Entrapped Saturated Zones in Partially Wetted Porous Media. Transport in Porous Media, 2018, 125, 193-210.	2.6	19
21	Dynamic contact angle hysteresis in liquid bridges. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 365-371.	4.7	74
22	Enhancement of Ce/Cr Codopant Solubility and Chemical Homogeneity in TiO ₂ Nanoparticles through Sol-Gel versus Pechini Syntheses. Inorganic Chemistry, 2018, 57, 7279-7289.	4.0	34
23	Stress-dependent electrical transport and its universal scaling in granular materials. Extreme Mechanics Letters, 2018, 22, 83-88.	4.1	8
24	Stress-Dependent Electrical Contact Resistance at Fractal Rough Surfaces. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	28
25	Influence of gas pressure on the effective thermal conductivity of ceramic breeder pebble beds. Fusion Engineering and Design, 2017, 118, 45-51.	1.9	26
26	Mechanical properties in crumple-formed paper derived materials subjected to compression. Heliyon, 2017, 3, e00329.	3.2	9
27	Electrical transport in granular metals. EPJ Web of Conferences, 2017, 140, 05010.	0.3	1
28	The distribution of saturated clusters in wetted granular materials. EPJ Web of Conferences, 2017, 140, 09031.	0.3	0
29	Contact stiffness of multiscale surfaces by truncation analysis. International Journal of Mechanical Sciences, 2017, 131-132, 305-316.	6.7	26
30	Universality of the emergent scaling in finite random binary percolation networks. PLoS ONE, 2017, 12, e0172298.	2.5	5
31	The effects of copper doping on photocatalytic activity at (101) planes of anatase TiO ₂ : A theoretical study. Applied Surface Science, 2016, 387, 682-689.	6.1	68
32	Stress-dependent frequency response of conductive granular materials. , 2016, , .		0
33	Interfacial electro-mechanical behaviour at rough surfaces. Extreme Mechanics Letters, 2016, 9, 422-429.	4.1	32
34	Two-dimensional modeling of the self-limiting oxidation in silicon and tungsten nanowires. Theoretical and Applied Mechanics Letters, 2016, 6, 195-199.	2.8	26
35	Evaporation Limited Radial Capillary Penetration in Porous Media. Langmuir, 2016, 32, 9899-9904.	3.5	51
36	3D printable geomaterials. Geotechnique, 2016, 66, 323-332.	4.0	49

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37	Compressive performance and crack propagation in Al alloy/Ti ₂ AlC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 247-256.	5.6	40
38	The Role of Surface Structure in Normal Contact Stiffness. Experimental Mechanics, 2016, 56, 359-368.	2.0	53
39	Static friction at fractal interfaces. Tribology International, 2016, 93, 229-238.	5.9	66
40	Static friction between rigid fractal surfaces. Physical Review E, 2015, 92, 032405.	2.1	2
41	Contact mechanics of fractal surfaces by spline assisted discretisation. International Journal of Solids and Structures, 2015, 59, 121-131.	2.7	80
42	An improved semi-analytical solution for stress at round-tip notches. Engineering Fracture Mechanics, 2015, 149, 134-143.	4.3	38
43	Solution based synthesis of mixed-phase materials in the Li ₂ TiO ₃ -Li ₄ SiO ₄ system. Journal of Nuclear Materials, 2015, 456, 151-161.	2.7	40
44	Scalable Surface Area Characterization by Electrokinetic Analysis of Complex Anion Adsorption. Langmuir, 2014, 30, 15143-15152.	3.5	92
45	Sand Supported Mixed-phase TiO ₂ Photocatalysts for Water Decontamination Applications. Advanced Engineering Materials, 2014, 16, 248-254.	3.5	49
46	Thermal Discrete Element Analysis of EU Solid Breeder Blanket Subjected to Neutron Irradiation. Fusion Science and Technology, 2014, 66, 83-90.	1.1	26
47	Theoretical study on copper's energetics and magnetism in TiO ₂ polymorphs. Journal of Applied Physics, 2013, 113, .	2.5	48
48	Experimental and numerical determination of mechanical properties of polygonal wood particles and their flow analysis in silos. Granular Matter, 2013, 15, 811-826.	2.2	48
49	Effects of surface structure deformation on static friction at fractal interfaces. Geotechnique Letters, 2013, 3, 52-58.	1.2	38
50	Single and mixed phase TiO ₂ powders prepared by excess hydrolysis of titanium alkoxide. Advances in Applied Ceramics, 2012, 111, 149-158.	1.1	71
51	Abnormal grain growth of rutile TiO ₂ induced by ZrSiO ₄ . Journal of Crystal Growth, 2012, 359, 83-91.	1.5	32
52	Ab initio study of phase stability in doped TiO ₂ . Computational Mechanics, 2012, 50, 185-194.	4.0	78
53	The effects of carboxylic acids on the aqueous dispersion and electrophoretic deposition of ZrO ₂ . Journal of the European Ceramic Society, 2012, 32, 235-244.	5.7	521
54	The effects of firing conditions on the properties of electrophoretically deposited titanium dioxide films on graphite substrates. Journal of the European Ceramic Society, 2011, 31, 2877-2885.	5.7	38

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55	Review of the anatase to rutile phase transformation. Journal of Materials Science, 2011, 46, 855-874.	3.7	2,530
56	Anodic aqueous electrophoretic deposition of titanium dioxide using carboxylic acids as dispersing agents. Journal of the European Ceramic Society, 2011, 31, 1041-1047.	5.7	58
57	Morphology and photocatalytic activity of highly oriented mixed phase titanium dioxide thin films. Surface and Coatings Technology, 2011, 205, 3658-3664.	4.8	79
58	Effective Thermal Conductivity of Submicron Powders: A Numerical Study. Applied Mechanics and Materials, 0, 846, 500-505.	0.2	9
59	Numerical Analysis of Normal Contact Stiffness of Rough Surfaces. Applied Mechanics and Materials, 0, 846, 300-305.	0.2	0