

Dorian A H Hanaor

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9314851/publications.pdf>

Version: 2024-02-01

59
papers

5,531
citations

147801

31
h-index

155660

55
g-index

59
all docs

59
docs citations

59
times ranked

8916
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the anatase to rutile phase transformation. Journal of Materials Science, 2011, 46, 855-874.	3.7	2,530
2	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
3	Freeze Casting: From Low-Dimensional Building Blocks to Aligned Porous Structures—A Review of Novel Materials, Methods, and Applications. Advanced Materials, 2020, 32, e1907176.	21.0	404
4	Materials and Applications for Low-Cost Ceramic Membranes. Membranes, 2019, 9, 105.	3.0	106
5	Additive manufacturing of ceramics from preceramic polymers: A versatile stereolithographic approach assisted by thiol-ene click chemistry. Additive Manufacturing, 2019, 27, 80-90.	3.0	98
6	Scalable Surface Area Characterization by Electrokinetic Analysis of Complex Anion Adsorption. Langmuir, 2014, 30, 15143-15152.	3.5	92
7	Contact mechanics of fractal surfaces by spline assisted discretisation. International Journal of Solids and Structures, 2015, 59, 121-131.	2.7	80
8	Morphology and photocatalytic activity of highly oriented mixed phase titanium dioxide thin films. Surface and Coatings Technology, 2011, 205, 3658-3664.	4.8	79
9	Ab initio study of phase stability in doped TiO ₂ . Computational Mechanics, 2012, 50, 185-194.	4.0	78
10	Dynamic contact angle hysteresis in liquid bridges. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 365-371.	4.7	74
11	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
12	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
13	Static friction at fractal interfaces. Tribology International, 2016, 93, 229-238.	5.9	66
14	Polymer-Derived SiOC Integrated with a Graphene Aerogel As a Highly Stable Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2020, 12, 46045-46056.	8.0	66
15	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
16	The Role of Surface Structure in Normal Contact Stiffness. Experimental Mechanics, 2016, 56, 359-368.	2.0	53
17	Evaporation Limited Radial Capillary Penetration in Porous Media. Langmuir, 2016, 32, 9899-9904.	3.5	51
18	Sand Supported Mixed-Phase TiO ₂ Photocatalysts for Water Decontamination Applications. Advanced Engineering Materials, 2014, 16, 248-254.	3.5	49

#	ARTICLE	IF	CITATIONS
19	3D printable geomaterials. <i>Geotechnique</i> , 2016, 66, 323-332.	4.0	49
20	Theoretical study on copper's energetics and magnetism in TiO ₂ polymorphs. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	48
21	Experimental and numerical determination of mechanical properties of polygonal wood particles and their flow analysis in silos. <i>Granular Matter</i> , 2013, 15, 811-826.	2.2	48
22	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
23	Theoretical insights into the hydrophobicity of low index CeO ₂ surfaces. <i>Applied Surface Science</i> , 2019, 478, 68-74.	6.1	45
24	Nanostructural insights into the dissolution behavior of Sr-doped hydroxyapatite. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5554-5562.	5.7	44
25	Solution based synthesis of mixed-phase materials in the Li ₂ TiO ₃ -Li ₄ SiO ₄ system. <i>Journal of Nuclear Materials</i> , 2015, 456, 151-161.	2.7	40
26	Compressive performance and crack propagation in Al alloy/Ti ₂ AlC composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 672, 247-256.	5.6	40
27	The effects of firing conditions on the properties of electrophoretically deposited titanium dioxide films on graphite substrates. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2877-2885.	5.7	38
28	Effects of surface structure deformation on static friction at fractal interfaces. <i>Geotechnique Letters</i> , 2013, 3, 52-58.	1.2	38
29	An improved semi-analytical solution for stress at round-tip notches. <i>Engineering Fracture Mechanics</i> , 2015, 149, 134-143.	4.3	38
30	Enhancement of Ce/Cr Codopant Solubility and Chemical Homogeneity in TiO ₂ Nanoparticles through Sol-Gel versus Pechini Syntheses. <i>Inorganic Chemistry</i> , 2018, 57, 7279-7289.	4.0	34
31	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
32	Abnormal grain growth of rutile TiO ₂ induced by ZrSiO ₄ . <i>Journal of Crystal Growth</i> , 2012, 359, 83-91.	1.5	32
33	Interfacial electro-mechanical behaviour at rough surfaces. <i>Extreme Mechanics Letters</i> , 2016, 9, 422-429.	4.1	32
34	Modes of wall induced granular crystallisation in vibrational packing. <i>Granular Matter</i> , 2019, 21, 1.	2.2	32
35	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. <i>Chemosphere</i> , 2022, 303, 134932.	8.2	32
36	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

#	ARTICLE	IF	CITATIONS
37	Stress-Dependent Electrical Contact Resistance at Fractal Rough Surfaces. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	28
38	Thermal Discrete Element Analysis of EU Solid Breeder Blanket Subjected to Neutron Irradiation. Fusion Science and Technology, 2014, 66, 83-90.	1.1	26
39	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
40	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
41	Contact stiffness of multiscale surfaces by truncation analysis. International Journal of Mechanical Sciences, 2017, 131-132, 305-316.	6.7	26
42	Tailoring porous media for controllable capillary flow. Journal of Colloid and Interface Science, 2019, 539, 379-387.	9.4	20
43	Dynamics of Viscous Entrapped Saturated Zones in Partially Wetted Porous Media. Transport in Porous Media, 2018, 125, 193-210.	2.6	19
44	Enhancement of hydroxyapatite dissolution through structure modification by Krypton ion irradiation. Journal of Materials Science and Technology, 2020, 38, 148-158.	10.7	18
45	Cu-Modified SrTiO ₃ Perovskites Toward Enhanced Water-Gas Shift Catalysis: A Combined Experimental and Computational Study. ACS Applied Energy Materials, 2021, 4, 452-461.	5.1	15
46	Bispropylurea bridged polysilsesquioxane: A microporous MOF-like material for molecular recognition. Chemosphere, 2021, 276, 130181.	8.2	14
47	Contact behaviour of simulated rough spheres generated with spherical harmonics. International Journal of Solids and Structures, 2020, 193-194, 54-68.	2.7	13
48	Exceptionally high saturation magnetisation in Eu-doped magnetite stabilised by spin-orbit interaction. Physical Chemistry Chemical Physics, 2021, 23, 20129-20137.	2.8	10
49	Effective Thermal Conductivity of Submicron Powders: A Numerical Study. Applied Mechanics and Materials, 0, 846, 500-505.	0.2	9
50	Mechanical properties in crumple-formed paper derived materials subjected to compression. Heliyon, 2017, 3, e00329.	3.2	9
51	Stress-dependent electrical transport and its universal scaling in granular materials. Extreme Mechanics Letters, 2018, 22, 83-88.	4.1	8
52	Multiscale modeling of the effective elastic properties of fluid-filled porous materials. International Journal of Solids and Structures, 2019, 162, 36-44.	2.7	7
53	Universality of the emergent scaling in finite random binary percolation networks. PLoS ONE, 2017, 12, e0172298.	2.5	5
54	A comparison of syntheses approaches towards functional polycrystalline silicate ceramics. Open Ceramics, 2022, 9, 100241.	2.0	3

#	ARTICLE	IF	CITATIONS
55	Static friction between rigid fractal surfaces. Physical Review E, 2015, 92, 032405.	2.1	2
56	Electrical transport in granular metals. EPJ Web of Conferences, 2017, 140, 05010.	0.3	1
57	Stress-dependent frequency response of conductive granular materials. , 2016, , .		0
58	Numerical Analysis of Normal Contact Stiffness of Rough Surfaces. Applied Mechanics and Materials, 0, 846, 300-305.	0.2	0
59	The distribution of saturated clusters in wetted granular materials. EPJ Web of Conferences, 2017, 140, 09031.	0.3	0