

Georgios Constantinides

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

3,738
citations

23
h-index

61
g-index

64
ext. papers

4,281
ext. citations

5.5
avg. IF

5.5
L-index

#	Paper	IF	Citations
60	The effect of two types of C-S-H on the elasticity of cement-based materials: Results from nanoindentation and micromechanical modeling. <i>Cement and Concrete Research</i> , 2004 , 34, 67-80	10.3	705
59	The nanogranular nature of CSH. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 64-90	5	537
58	Grid indentation analysis of composite microstructure and mechanics: Principles and validation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 430, 189-202	5.3	382
57	The nano-mechanical signature of Ultra High Performance Concrete by statistical nanoindentation techniques. <i>Cement and Concrete Research</i> , 2008 , 38, 1447-1456	10.3	323
56	A multi-technique investigation of the nanoporosity of cement paste. <i>Cement and Concrete Research</i> , 2007 , 37, 329-336	10.3	279
55	On the use of nanoindentation for cementitious materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2003 , 36, 191-196	3.4	243
54	Is concrete a poromechanics materials? A multiscale investigation of poroelastic properties. <i>Materials and Structures/Materiaux Et Constructions</i> , 2004 , 37, 43-58	3.4	189
53	Enhanced Stiffness of Amorphous Polymer Surfaces under Confinement of Localized Contact Loads. <i>Advanced Materials</i> , 2007 , 19, 2540-2546	24	102
52	Does microstructure matter for statistical nanoindentation techniques?. <i>Cement and Concrete Composites</i> , 2010 , 32, 92-99	8.6	101
51	Probing mechanical properties of fully hydrated gels and biological tissues. <i>Journal of Biomechanics</i> , 2008 , 41, 3285-9	2.9	81
50	Dual-indentation technique for the assessment of strength properties of cohesive-frictional materials. <i>International Journal of Solids and Structures</i> , 2006 , 43, 1727-1745	3.1	73
49	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. <i>Nano Energy</i> , 2017 , 40, 49-64	17.1	63
48	Quantifying plasticity-independent creep compliance and relaxation of viscoelastoplastic materials under contact loading. <i>Journal of Materials Research</i> , 2012 , 27, 302-312	2.5	49
47	Turning calcined waste egg shells and wastewater to Brushite: Phosphorus adsorption from aqua media and anaerobic sludge leach water. <i>Journal of Cleaner Production</i> , 2018 , 178, 419-428	10.3	46
46	Electrodeposited Nanostructured CoFe ₂ O ₄ for Overall Water Splitting and Supercapacitor Applications. <i>Catalysts</i> , 2019 , 9, 176	4	40
45	Quantitative Impact Testing of Energy Dissipation at Surfaces. <i>Experimental Mechanics</i> , 2009 , 49, 511-522.	6	39
44	On the conical indentation response of elastic auxetic materials: Effects of Poisson's ratio, contact friction and cone angle. <i>International Journal of Solids and Structures</i> , 2016 , 81, 33-42	3.1	36

43	On the use of nanoindentation for cementitious materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2003 , 36, 191-196	3.4	36
42	Double Networks Based on Amphiphilic Cross-Linked Star Block Copolymer First Conetworks and Randomly Cross-Linked Hydrophilic Second Networks. <i>Macromolecules</i> , 2016 , 49, 1731-1742	5.5	31
41	Microstructure and nanomechanical properties of pulsed excimer laser deposited DLC:Ag films: Enhanced nanotribological response. <i>Surface and Coatings Technology</i> , 2017 , 309, 320-330	4.4	29
40	Multi-scale mechanical investigation of stainless steel and cobalt-chromium stents. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 40, 240-251	4.1	26
39	Finite element modeling of nanoindentation on C ₃ S: Effect of pile-up and contact friction. <i>Cement and Concrete Composites</i> , 2013 , 36, 78-84	8.6	24
38	Dealing with imperfection: quantifying potential length scale artefacts from nominally spherical indenter probes. <i>Nanotechnology</i> , 2007 , 18, 305503	3.4	24
37	Microstructure and nanomechanical properties of magnetron sputtered Ti/Nb films. <i>Surface and Coatings Technology</i> , 2016 , 302, 310-319	4.4	21
36	Biowaste-based biochar: A new strategy for fermentative bioethanol overproduction via whole-cell immobilization. <i>Applied Energy</i> , 2019 , 242, 480-491	10.7	20
35	Few-step synthesis, thermal purification and structural characterization of porous boron nitride nanoplatelets. <i>Materials and Design</i> , 2016 , 110, 540-548	8.1	19
34	Nanoporous spongy graphene: Potential applications for hydrogen adsorption and selective gas separation. <i>Thin Solid Films</i> , 2015 , 596, 242-249	2.2	17
33	Enhancing bioproduction and thermotolerance in <i>Saccharomyces cerevisiae</i> via cell immobilization on biochar: Application in a citrus peel waste biorefinery. <i>Renewable Energy</i> , 2020 , 155, 53-64	8.1	17
32	Needle grass array of nanostructured nickel cobalt sulfide electrode for clean energy generation. <i>Surface and Coatings Technology</i> , 2018 , 354, 306-312	4.4	16
31	Experimental Microporomechanics 2005 , 207-288		15
30	Enhancing the nanoscratch resistance of pulsed laser deposited DLC films through molybdenum-doping. <i>Surface and Coatings Technology</i> , 2017 , 330, 185-195	4.4	13
29	Copper biomachining mechanisms using the newly isolated <i>Acidithiobacillus ferrooxidans</i> B1. <i>Corrosion Science</i> , 2015 , 100, 642-650	6.8	13
28	Nanostructured Fe-Ni Sulfide: A Multifunctional Material for Energy Generation and Storage. <i>Catalysts</i> , 2019 , 9, 597	4	12
27	Multiple Network Hydrogels: A Study of Their Nanoindentation Hardness. <i>Macromolecular Symposia</i> , 2019 , 385, 1800201	0.8	11
26	Phosphate removal from synthetic and real wastewater using thermally treated seagrass residues of <i>Posidonia oceanica</i> . <i>Journal of Cleaner Production</i> , 2021 , 278, 123294	10.3	11

25	Effects of pre-treatment using waste quarry dust on the adherence of recycled tyre rubber particles to cementitious paste in rubberised concrete. <i>Construction and Building Materials</i> , 2020 , 254, 119325	6.7	10
24	Mechanical and high pressure tribological properties of nanocrystalline Ti(N,C) and amorphous C:H nanocomposite coatings. <i>Diamond and Related Materials</i> , 2010 , 19, 960-963	3.5	9
23	Boron Nitride Nanotubes Versus Carbon Nanotubes: A Thermal Stability and Oxidation Behavior Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
22	Anaerobic granular sludge and zero valent scrap iron (ZVSI) pre-treated with green tea as a sustainable system for conversion of CO ₂ to CH ₄ . <i>Journal of Cleaner Production</i> , 2020 , 268, 121860	10.3	7
21	Metal (Ag/Ti)-Containing Hydrogenated Amorphous Carbon Nanocomposite Films with Enhanced Nanoscratch Resistance: Hybrid PECVD/PVD System and Microstructural Characteristics. <i>Nanomaterials</i> , 2018 , 8,	5.4	7
20	Quantifying deformation and energy dissipation of polymeric surfaces under localized impact. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 ,	5.3	7
19	Synthesis, characterization and thermoelectric performance of Mg ₂ (Si,Sn,Ge) materials using Si-kerf waste from photovoltaic technology. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 153933	5.7	6
18	Novel combustion synthesis of carbon foam-aluminum fluoride nanocomposite materials. <i>Materials and Design</i> , 2018 , 144, 222-228	8.1	6
17	Probing the Evolution of Retained Austenite in TRIP Steel During Strain-Induced Transformation: A Multitechnique Investigation. <i>Jom</i> , 2018 , 70, 924-928	2.1	4
16	Functionally graded poly(dimethylsiloxane)/silver nanocomposites with tailored broadband optical absorption. <i>Thin Solid Films</i> , 2015 , 581, 14-19	2.2	4
15	Surface tension driven flow of blood in a rectangular microfluidic channel: Effect of erythrocyte aggregation. <i>Physics of Fluids</i> , 2020 , 32, 071903	4.4	4
14	Characterization of a soft tissue-mimicking agar/wood powder material for MRgFUS applications. <i>Ultrasonics</i> , 2021 , 113, 106357	3.5	4
13	Nanoscience and nanoengineering of cement-based materials 2013 , 9-37a		3
12	Reply to discussion of the paper A multi-technique investigation of the nanoporosity of cement paste <i>Cement and Concrete Research</i> , 2007 , 37, 1374-1375	10.3	3
11	Acoustical properties of 3D printed thermoplastics. <i>Journal of the Acoustical Society of America</i> , 2021 , 149, 2854	2.2	3
10	Untapped Potential of Moving Bed Biofilm Reactors with Different Biocarrier Types for Bilge Water Treatment: A Laboratory-Scale Study. <i>Water (Switzerland)</i> , 2021 , 13, 1810	3	3
9	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29141-29149	3.8	2
8	Synthesis and Characterization of Hydrogenated Diamond-Like Carbon (HDLC) Nanocomposite Films with Metal (Ag, Cu) Nanoparticles. <i>Materials</i> , 2020 , 13,	3.5	1

7	Nanotribological response of a-C:H coated metallic biomaterials: the cases of stainless steel, titanium, and niobium. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018 , 16, 230-240	1.8	1
6	Nanomechanical Explorations of Cementitious Materials: Recent Results and Future Perspectives 2009 , 63-69		1
5	Assessing the performance of electrospun nanofabrics as potential interlayer reinforcement materials for fiber-reinforced polymers. <i>Composites and Advanced Materials</i> , 2021 , 30, 263498332110025		1
4	Ultrasonic Attenuation of an Agar, Silicon Dioxide, and Evaporated Milk Gel Phantom.. <i>Journal of Medical Ultrasound</i> , 2021 , 29, 239-249	0.8	0
3	Preparation of highly efficient thermoelectric Bi-doped Mg ₂ Si _{0.55-x} Sn _{0.4} Gex (x = 0 and 0.05) materials with a scalable mechanical alloying method. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 110472	3.9	0
2	Evaluation of a Thermal Consolidation Process for the Production of Enhanced Technical Fabrics. <i>Machines</i> , 2021 , 9, 143	2.9	
1	Metallic Stents: Biomechanical Analysis and In Vivo Investigation of the Vessel Inflammatory Response. <i>IFMBE Proceedings</i> , 2016 , 1081-1084	0.2	