

Konstantin Sobolev

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,351
citations

147566

31
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110170

64
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102
all docs

102
docs citations

102
times ranked

3987
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistivity Signature of Graphene-Based Fiber-Reinforced Composite Subjected to Mechanical Loading. <i>Frontiers in Materials</i> , 2022, 9, .	1.2	4
2	Synthesis of ZnO/TiO ₂ -Based Hydrophobic Antimicrobial Coatings for Steel and Their Roughness, Wetting, and Tribological Characterization. <i>Journal of Tribology</i> , 2022, 144, .	1.0	5
3	Investigation of the influence of Off-Spec coal combustion waste on asphalt binder rheological performance and aging sensitivity. <i>Cleaner Materials</i> , 2022, 4, 100073.	1.9	2
4	Top-Down Production of Nano-Seeds from Activated Fly Ash Tuned for Enhancing the Early Strength in Blended Cements. <i>Nanomaterials</i> , 2022, 12, 2347.	1.9	0
5	Evaporation of droplets capable of bearing viruses airborne and on hydrophobic surfaces. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	11
6	Data-Driven Coral Reef Rehabilitation Using New Biomimicking, <i>Advanced Materials Artificial Reefs. Marine Technology Society Journal</i> , 2021, 55, 120-121.	0.3	0
7	The Effect of Cement Reactive Powders on the Mechanical Response of WMA Mixtures. , 2021, , .		1
8	Effect of Using Cement Reactive Powders on Rheological Performance of Asphalt Mastics. , 2021, , .		3
9	Towards Ultrahigh Performance Concrete Produced with Aluminum Oxide Nanofibers and Reduced Quantities of Silica Fume. <i>Nanomaterials</i> , 2020, 10, 2291.	1.9	15
10	Hydrophobic modification of ultra-high-performance fiber-reinforced composites with matrices enhanced by aluminum oxide nano-fibers. <i>Construction and Building Materials</i> , 2020, 244, 118354.	3.2	19
11	Ultra-high strength cement-based composites designed with aluminum oxide nano-fibers. <i>Construction and Building Materials</i> , 2019, 220, 177-186.	3.2	45
12	Influence of Fe component from milling yield on characteristics of perlite based geopolymers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 560, 012148.	0.3	4
13	Modeling and Experimental Evaluation of Aggregate Packing for Effective Application in Concrete. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	14
14	Tribological and Wetting Properties of TiO ₂ Based Hydrophobic Coatings for Ceramics. <i>Journal of Tribology</i> , 2019, 141, .	1.0	23
15	Durability of Concrete Mixtures Containing Supplementary Cementitious Materials in Rapid Chloride Permeability Test. <i>ACI Materials Journal</i> , 2019, 116, .	0.3	3
16	Alternative Supplementary Cementitious Materials. <i>RILEM State-of-the-Art Reports</i> , 2018, , 233-282.	0.3	7
17	The fungistatic properties and potential application of by-product fly ash from fluidized bed combustion. <i>Construction and Building Materials</i> , 2018, 159, 351-360.	3.2	13
18	THE EFFECT OF SiO ₂ NANOPARTICLES ON PERFORMANCE OF CEMENT-BASED MATERIALS. <i>Bulletin of Belgorod State Technological University Named After V G Shukhov</i> , 2018, 3, 6-16.	0.1	1

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19	Effect of Spray Dryer Absorbers as Mix Enhancer on HMA Performance. Sustainable Civil Infrastructures, 2018, , 80-95.	0.1	0
20	Cements in the 21 st century: Challenges, perspectives, and opportunities. Journal of the American Ceramic Society, 2017, 100, 2746-2773.	1.9	168
21	Assessment of the quantitative accuracy of Rietveld/XRD analysis of crystalline and amorphous phases in fly ash. Analytical Methods, 2017, 9, 2415-2424.	1.3	23
22	Scheduling of directed acyclic graphs by a genetic algorithm with a repairing mechanism. Concurrency Computation Practice and Experience, 2017, 29, e3954.	1.4	3
23	Influence of Coal Combustion By-Products Physiochemical Properties on Aging Related Performance of Asphalt Mastics and HMA. , 2017, , .		1
24	Impact of Heavy Vehicles on the Durability of Concrete Bridge Decks. Journal of Bridge Engineering, 2017, 22, .	1.4	2
25	The effect of SiO ₂ nanoparticles derived from hydrothermal solutions on the performance of portland cement based materials. Frontiers of Structural and Civil Engineering, 2017, 11, 436-445.	1.2	36
26	The investigation of fly ash based asphalt binders using atomic force microscope. Frontiers of Structural and Civil Engineering, 2017, 11, 380-387.	1.2	5
27	Evaluation and prediction of bond strength of GFRP-bar reinforced concrete using artificial neural network optimized with genetic algorithm. Composite Structures, 2017, 161, 441-452.	3.1	101
28	Anti-Icing Superhydrophobic Surfaces: Controlling Entropic Molecular Interactions to Design Novel Icephobic Concrete. Entropy, 2016, 18, 132.	1.1	79
29	Nanoengineered Concrete. , 2016, , 2369-2379.		1
30	Modern developments related to nanotechnology and nanoengineering of concrete. Frontiers of Structural and Civil Engineering, 2016, 10, 131-141.	1.2	60
31	The influence of mechanical activation by vibro-milling on the early-age hydration and strength development of cement. Cement and Concrete Composites, 2016, 71, 53-62.	4.6	33
32	Nano-Engineered Cements with Enhanced Mechanical Performance. Journal of the American Ceramic Society, 2016, 99, 564-572.	1.9	20
33	Effect of nano-YSZ and nano-ZrO ₂ additions on the strength and toughness behavior of self-flowing alumina castables. Ceramics International, 2016, 42, 1847-1855.	2.3	27
34	Photocatalytic hydrophobic concrete coatings to combat air pollution. Catalysis Today, 2016, 259, 228-236.	2.2	75
35	Fly Ash - An Important Ingredient for use in Hot-Mix ASHphalt Concrete. , 2016, , .		4
36	Changing range genetic algorithm for multimodal function optimisation. International Journal of Bio-Inspired Computation, 2015, 7, 209.	0.6	5

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37	Nano-engineered Superhydrophobic and Overhydrophobic Concrete. , 2015, , 443-449.		2
38	Characterization of Damage and Aging Resistance of Asphalt Mastics with Coal Combustion By-Products. , 2015, , .		4
39	Hydrophobic engineered cementitious composites for highway applications. Cement and Concrete Composites, 2015, 57, 68-74.	4.6	80
40	Evaluation of modified-graphite nanomaterials in concrete nanocomposite based on packing density principles. Construction and Building Materials, 2015, 76, 413-422.	3.2	54
41	Dynamics of Droplet Impact on Hydrophobic/Icephobic Concrete with the Potential for Superhydrophobicity. Langmuir, 2015, 31, 1437-1444.	1.6	88
42	The performance of stress-sensing smart fiber reinforced composites in moist and sodium chloride environments. Composites Part B: Engineering, 2015, 73, 89-95.	5.9	33
43	Durability of superhydrophobic engineered cementitious composites. Construction and Building Materials, 2015, 81, 291-297.	3.2	62
44	The optimization of aggregate blends for sustainable low cement concrete. Construction and Building Materials, 2015, 93, 627-634.	3.2	44
45	The Effect of Functionalized Carbon Nanotubes on Phase Composition and Strength of Composites. , 2015, , 245-251.		4
46	Nanotechnology and Nanoengineering of Construction Materials. , 2015, , 3-13.		16
47	Effect of Coal Combustion Products on high temperature performance of asphalt mastics. Construction and Building Materials, 2015, 94, 572-578.	3.2	35
48	Nanoengineered Concrete. , 2015, , 1-11.		0
49	New Alumosilicate Fillers Based on Sedimentary Rocks for Asphalt Concrete. Materials Research Society Symposia Proceedings, 2014, 1611, 81-87.	0.1	2
50	The Effect of Silica Polymerization in Fly Ash on the Strength of Geopolymers. Materials Research Society Symposia Proceedings, 2014, 1611, 68-74.	0.1	4
51	Autoclaved Composites with Nanostructured Silica Additive. Materials Research Society Symposia Proceedings, 2014, 1611, 111-116.	0.1	4
52	The Efficiency of SiO ₂ Based Materials in Granulated Artificial Aggregates. Materials Research Society Symposia Proceedings, 2014, 1611, 117-122.	0.1	1
53	The Application of Nano-Structured Silica Based Admixture in Gypsum Binders. Materials Research Society Symposia Proceedings, 2014, 1611, 165-170.	0.1	6
54	Self-Consolidating Green Concrete Based on Metakaolin and Aggregate Fines. Materials Research Society Symposia Proceedings, 2014, 1611, 75-80.	0.1	4

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55	Cement Composites Reinforced with Functionalized Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2014, 1611, 133-138.	0.1	2
56	The effect of fly ash on the rheological properties of bituminous materials. Fuel, 2014, 116, 471-477.	3.4	83
57	Artificial aggregates based on granulated reactive silica powders. Advanced Powder Technology, 2014, 25, 1076-1081.	2.0	8
58	Design and application of controlled low strength materials as a structural fill. Construction and Building Materials, 2014, 53, 425-431.	3.2	37
59	Role of cement content on the properties of self-flowing Al ₂ O ₃ refractory castables. Journal of the European Ceramic Society, 2014, 34, 1365-1373.	2.8	48
60	The Development of Hydrophobic and Superhydrophobic Cementitious Composites. , 2014, , .		8
61	Enhancement of the durability characteristics of concrete nanocomposite pipes with modified graphite nanoplatelets. Construction and Building Materials, 2013, 47, 111-117.	3.2	116
62	Effect of the cementitious paste density on the performance efficiency of carbon nanofiber in concrete nanocomposite. Construction and Building Materials, 2013, 48, 265-269.	3.2	79
63	From superhydrophobicity to icephobicity: forces and interaction analysis. Scientific Reports, 2013, 3, 2194.	1.6	273
64	Self-Assembling Particle-Siloxane Coatings for Superhydrophobic Concrete. ACS Applied Materials & Interfaces, 2013, 5, 13284-13294.	4.0	150
65	Concrete Embedded Dye-Synthesized Photovoltaic Solar Cell. Scientific Reports, 2013, 3, 2727.	1.6	16
66	Freeze-Thaw Resistance of Fiber Reinforced Composites with Superhydrophobic Admixtures. , 2013, , .		1
67	Nanomedicine. , 2012, , 1644-1644.		0
68	Fractal dimension of Apollonian packing of spherical particles. Advanced Powder Technology, 2012, 23, 591-595.	2.0	4
69	Nanostructures for Coloration (Organisms other than Animals). , 2012, , 1790-1803.		0
70	Nano-FET. , 2012, , 1543-1543.		0
71	Tribo-Chemical Activation of Green Eco-Cements. Green Energy and Technology, 2012, , 413-428.	0.4	0
72	Investigation of strain-sensing materials based on EM surface wave propagation for steel bridge health monitoring. Construction and Building Materials, 2011, 25, 3024-3029.	3.2	3

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73	Application of genetic algorithm for modeling of dense packing of concrete aggregates. Construction and Building Materials, 2010, 24, 1449-1455.	3.2	60
74	Nanotechnology in concrete – A review. Construction and Building Materials, 2010, 24, 2060-2071.	3.2	1,378
75	Micromechanical Models of Structural Behavior of Concrete. Materials Research Society Symposia Proceedings, 2010, 1276, 1.	0.1	0
76	Performance of Cement Systems with Nano-SiO ₂ Particles Produced Using Sol-gel Method. Materials Research Society Symposia Proceedings, 2010, 1276, 1.	0.1	10
77	Performance of Cement Systems with Nano-SiO ₂ Particles Produced by Using the Sol-Gel Method. Transportation Research Record, 2010, 2141, 10-14.	1.0	34
78	Properties of blended cements with thermally activated kaolin. Construction and Building Materials, 2009, 23, 62-70.	3.2	65
79	Development of an electromagnetic hydrocyclone separator for purification of wastewater. Water and Environment Journal, 2008, 22, 11-16.	1.0	14
80	Optimization of a Computer Simulation Model for Packing of Concrete Aggregates. Particulate Science and Technology, 2008, 26, 380-395.	1.1	24
81	Effect of a Polyethylhydrosiloxane Admixture on the Durability of Concrete with Supplementary Cementitious Materials. Journal of Materials in Civil Engineering, 2007, 19, 809-819.	1.3	32
82	Evaluation of selected kaolins as raw materials for the Turkish cement and concrete industry. Clay Minerals, 2007, 42, 233-244.	0.2	28
83	Utilization of waste glass in ECO-cement: Strength properties and microstructural observations. Waste Management, 2007, 27, 971-976.	3.7	112
84	The diagonal tension behavior of fiber reinforced concrete beams. Cement and Concrete Composites, 2007, 29, 402-408.	4.6	34
85	The simulation of particulate materials packing using a particle suspension model. Advanced Powder Technology, 2007, 18, 261-271.	2.0	17
86	Fractal properties of Apollonian packing of spherical particles. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 789-798.	0.8	15
87	Genetic algorithm for cost optimization of modified multi-component binders. Building and Environment, 2006, 41, 195-203.	3.0	1
88	The development of high-strength mortars with improved thermal and acid resistance. Cement and Concrete Research, 2005, 35, 578-583.	4.6	20
89	Mechano-chemical modification of cement with high volumes of blast furnace slag. Cement and Concrete Composites, 2005, 27, 848-853.	4.6	71
90	Optimal proportioning of concrete aggregates using a self-adaptive genetic algorithm. Computers and Concrete, 2005, 2, 411-421.	0.7	10

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91	Development of Eco-Cement Containing High Volumes of Waste Glass. , 2004, , 21-26.		0
92	The development of a simulation model of the dense packing of large particulate assemblies. Powder Technology, 2004, 141, 155-160.	2.1	59
93	A simulation model of the dense packing of particulate materials. Advanced Powder Technology, 2004, 15, 365-376.	2.0	16
94	The development of a new method for the proportioning of high-performance concrete mixtures. Cement and Concrete Composites, 2004, 26, 901-907.	4.6	89
95	Sustainable Development of the Cement Industry and Blended Cements to Meet Ecological Challenges. Scientific World Journal, The, 2003, 3, 308-318.	0.8	15
96	Effect of complex admixtures on cement properties and the development of a test procedure for the evaluation of high-strength cements. Advances in Cement Research, 2003, 15, 67-75.	0.7	2
97	The optimization of a gypsum-based composite material. Cement and Concrete Research, 2002, 32, 1725-1728.	4.6	90
98	High Performance Cement: A Solution for Next Millennium. Materials Technology, 1999, 14, 191-193.	1.5	16
99	DesempeÃ±o de compuestos con fibras de alcohol polivinÃ­lico y nano-fibras/tubos de carbono. , 0, , .		0