

Ä°lker Bekir TopÄu

List of Publications by Year in descending order

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99
papers

6,623
citations

66336

42
h-index

64791

79
g-index

99
all docs

99
docs citations

99
times ranked

4307
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of concrete containing waste glass. Cement and Concrete Research, 2004, 34, 267-274.	11.0	476
2	The properties of rubberized concretes. Cement and Concrete Research, 1995, 25, 304-310.	11.0	467
3	Properties of concretes produced with waste concrete aggregate. Cement and Concrete Research, 2004, 34, 1307-1312.	11.0	422
4	Prediction of compressive strength of concrete containing fly ash using artificial neural networks and fuzzy logic. Computational Materials Science, 2008, 41, 305-311.	3.0	387
5	Effect of waste marble dust content as filler on properties of self-compacting concrete. Construction and Building Materials, 2009, 23, 1947-1953.	7.2	275
6	Using waste concrete as aggregate. Cement and Concrete Research, 1995, 25, 1385-1390.	11.0	197
7	Effect of different fibers on the mechanical properties of concrete containing fly ash. Construction and Building Materials, 2007, 21, 1486-1491.	7.2	181
8	Prediction of mechanical properties of recycled aggregate concretes containing silica fume using artificial neural networks and fuzzy logic. Computational Materials Science, 2008, 42, 74-82.	3.0	178
9	Properties of the autoclaved aerated concrete produced from coal bottom ash. Journal of Materials Processing Technology, 2009, 209, 767-773.	6.3	168
10	Effect of aggregate type on properties of hardened self-consolidating lightweight concrete (SCLC). Construction and Building Materials, 2010, 24, 1286-1295.	7.2	159
11	Collision behaviours of rubberized concrete. Cement and Concrete Research, 1997, 27, 1893-1898.	11.0	142
12	Use of waste marble and recycled aggregates in self-compacting concrete for environmental sustainability. Journal of Cleaner Production, 2014, 84, 691-700.	9.3	140
13	Experimental investigation of some fresh and hardened properties of rubberized self-compacting concrete. Materials & Design, 2009, 30, 3056-3065.	5.1	138
14	Physical and mechanical properties of concretes produced with waste concrete. Cement and Concrete Research, 1997, 27, 1817-1823.	11.0	126
15	Prediction of long-term effects of GGBFS on compressive strength of concrete by artificial neural networks and fuzzy logic. Construction and Building Materials, 2009, 23, 1279-1286.	7.2	121
16	The effect of fly ash content and types of aggregates on the properties of pre-fabricated concrete interlocking blocks (PCIBs). Construction and Building Materials, 2012, 30, 180-187.	7.2	121
17	Durability and microstructure characteristics of alkali activated coal bottom ash geopolymer cement. Journal of Cleaner Production, 2014, 81, 211-217.	9.3	121
18	Prediction of rubberized concrete properties using artificial neural network and fuzzy logic. Construction and Building Materials, 2008, 22, 532-540.	7.2	120

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19	Utilization of natural zeolite in aerated concrete production. Cement and Concrete Composites, 2010, 32, 1-8.	10.7	120
20	Prediction of properties of waste AAC aggregate concrete using artificial neural network. Computational Materials Science, 2007, 41, 117-125.	3.0	115
21	Durability of Rubberized Mortar and Concrete. Journal of Materials in Civil Engineering, 2007, 19, 173-178.	2.9	111
22	Influence of fly ash on corrosion resistance and chloride ion permeability of concrete. Construction and Building Materials, 2012, 31, 258-264.	7.2	108
23	Manufacture of high heat conductivity resistant clay bricks containing perlite. Building and Environment, 2007, 42, 3540-3546.	6.9	105
24	Effect of expanded perlite aggregate on the properties of lightweight concrete. Journal of Materials Processing Technology, 2008, 204, 34-38.	6.3	104
25	Semi lightweight concretes produced by volcanic slags. Cement and Concrete Research, 1997, 27, 15-21.	11.0	98
26	Thermal expansion of self-consolidating normal and lightweight aggregate concrete at elevated temperature. Construction and Building Materials, 2009, 23, 3063-3069.	7.2	95
27	Properties of autoclaved lightweight aggregate concrete. Building and Environment, 2007, 42, 4108-4116.	6.9	94
28	Properties of heavyweight concrete produced with barite. Cement and Concrete Research, 2003, 33, 815-822.	11.0	92
29	The role of scrap rubber particles on the drying shrinkage and mechanical properties of self-consolidating mortars. Construction and Building Materials, 2010, 24, 1141-1150.	7.2	91
30	Alkali-silica reactions of mortars produced by using waste glass as fine aggregate and admixtures such as fly ash and Li ₂ CO ₃ . Waste Management, 2008, 28, 878-884.	7.4	88
31	Effect of blended cements produced with natural zeolite and industrial by-products on alkali-silica reaction and sulfate resistance of concrete. Construction and Building Materials, 2011, 25, 1789-1795.	7.2	86
32	Using ANN and ANFIS to predict the mechanical and chloride permeability properties of concrete containing GGBFS and CNI. Composites Part B: Engineering, 2013, 45, 688-696.	12.0	84
33	Properties of mortars with fly ash as fine aggregate. Construction and Building Materials, 2015, 93, 782-789.	7.2	84
34	Assessment of the brittleness index of rubberized concretes. Cement and Concrete Research, 1997, 27, 177-183.	11.0	82
35	Electrical conductivity of setting cement paste with different mineral admixtures. Construction and Building Materials, 2012, 28, 414-420.	7.2	73
36	Effect of ground granulate blast-furnace slag on corrosion performance of steel embedded in concrete. Materials & Design, 2010, 31, 3358-3365.	5.1	59

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37	Effect of the use of mineral filler on the properties of concrete. Cement and Concrete Research, 2003, 33, 1071-1075.	11.0	56
38	Influence of concrete properties on bleeding and evaporation. Cement and Concrete Research, 2004, 34, 275-281.	11.0	56
39	Modeling corrosion currents of reinforced concrete using ANN. Automation in Construction, 2009, 18, 145-152.	9.8	55
40	Predicting the strength development of cements produced with different pozzolans by neural network and fuzzy logic. Materials & Design, 2008, 29, 1986-1991.	5.1	53
41	Properties of geopolymer from circulating fluidized bed combustion coal bottom ash. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1472-1477.	5.6	47
42	Effect of high dosage lignosulphonate and naphthalene sulphonate based plasticizer usage on micro concrete properties. Construction and Building Materials, 2016, 120, 189-197.	7.2	47
43	Properties of Reinforced Concrete Steel Rebars Exposed to High Temperatures. Research Letters in Materials Science, 2008, 2008, 1-4.	0.2	43
44	Effect of blended cements with natural zeolite and industrial by-products on rebar corrosion and high temperature resistance of concrete. Construction and Building Materials, 2012, 35, 906-911.	7.2	43
45	Experimental investigation of drying shrinkage cracking of composite mortars incorporating crushed tile fine aggregate. Materials & Design, 2010, 31, 4088-4097.	5.1	40
46	Fine aggregate and curing temperature effect on concrete maturity. Cement and Concrete Research, 2005, 35, 758-762.	11.0	38
47	Prediction of rubberized mortar properties using artificial neural network and fuzzy logic. Journal of Materials Processing Technology, 2008, 199, 108-118.	6.3	34
48	Pozzolanic effect of andesite waste powder on mechanical properties of high strength concrete. Construction and Building Materials, 2018, 165, 494-503.	7.2	34
49	Concrete cover effect on reinforced concrete bars exposed to high temperatures. Construction and Building Materials, 2007, 21, 1155-1160.	7.2	31
50	Estimation of the modulus of elasticity of slag concrete by using composite material models. Construction and Building Materials, 2010, 24, 741-748.	7.2	29
51	Modeling of some properties of the crushed tile concretes exposed to elevated temperatures. Construction and Building Materials, 2011, 25, 1883-1889.	7.2	26
52	Effect of admixture ratio and aggregate type on self-leveling screed properties. Construction and Building Materials, 2016, 116, 321-325.	7.2	25
53	Influence of aggregate type on workability of self-consolidating lightweight concrete. Magazine of Concrete Research, 2011, 63, 1-12.	2.0	23
54	The effect of ground granulated blast-furnace slag on properties of Horasan mortar. Construction and Building Materials, 2013, 40, 448-454.	7.2	22

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55	Prediction of restrained shrinkage crack widths of slag mortar composites by Takagi and Sugeno ANFIS models. <i>Neural Computing and Applications</i> , 2016, 27, 2523-2536.	5.6	22
56	Analysis of Rubberized Concrete as a Three-phase Composite Material. <i>Journal of Composite Materials</i> , 2009, 43, 1251-1263.	2.4	21
57	Effects of bottom ash and granulated blast furnace slag as fine aggregate on abrasion resistance of concrete. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 261-269.	1.4	21
58	Investigation and recycling of paint sludge with cement and lime for producing lightweight construction mortar. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 861-869.	6.7	21
59	Effect of carbon black on electrical curing of fresh concrete for cold regions. <i>Construction and Building Materials</i> , 2020, 247, 118572.	7.2	21
60	Effect of boron waste on the properties of mortar and concrete. <i>Waste Management and Research</i> , 2010, 28, 626-633.	3.9	18
61	Properties of corrosion inhibitors on reinforced concrete. <i>Journal of Structural Engineering & Applied Mechanics</i> , 2020, 3, 93-109.	0.3	16
62	Effects of Crushed RAP on Free and Restrained Shrinkage of Mortars. <i>International Journal of Concrete Structures and Materials</i> , 2009, 3, 91-95.	3.2	16
63	A two-phase composite materials approach to the workability of concrete. <i>Cement and Concrete Composites</i> , 1995, 17, 319-325.	10.7	15
64	Bond strength of polymer lightweight aggregate concrete. <i>Polymer Composites</i> , 2013, 34, 2125-2132.	4.6	14
65	Alternative estimation of the modulus of elasticity for dam concrete. <i>Cement and Concrete Research</i> , 2005, 35, 2199-2202.	11.0	13
66	Determination of optimal microwave curing cycle for fly ash mortars. <i>Canadian Journal of Civil Engineering</i> , 2008, 35, 349-357.	1.3	11
67	The effect of cover thickness on rebars exposed to elevated temperatures. <i>Construction and Building Materials</i> , 2008, 22, 2053-2058.	7.2	10
68	The effect of elevated temperatures on corroded and uncorroded reinforcement embedded in mortar. <i>Construction and Building Materials</i> , 2010, 24, 2101-2107.	7.2	9
69	The influence of silicoferrochromium fume on concrete properties. <i>Cement and Concrete Research</i> , 1995, 25, 387-394.	11.0	8
70	Relationship between methylene blue values of concrete aggregate fines and some concrete properties. <i>Canadian Journal of Civil Engineering</i> , 2008, 35, 379-383.	1.3	8
71	Effects of slag fineness on durability of mortars. <i>Journal of Zhejiang University: Science A</i> , 2007, 8, 1725-1730.	2.4	7
72	Influence of cover thickness on the mechanical properties of steel bar in mortar exposed to high temperatures. <i>Fire and Materials</i> , 2011, 35, 93-103.	2.0	6

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73	A discussion of the paper "The maturity method: Modifications to improve estimation of concrete strength at later age" by Yahia A. Abdel-Jawad. <i>Construction and Building Materials</i> , 2007, 21, 1144-1148.	7.2	5
74	Effect of aggregate type on linear thermal expansion of self-consolidating concrete at elevated temperatures. <i>Science and Engineering of Composite Materials</i> , 2012, 19, 259-269.	1.4	4
75	YÄ¼ksek FÄ±rÄ±n CÄ¼ruf KatkÄ±lÄ± Ä±mento PastalarÄ±nÄ±n Elektriksel Ä±direnÄŒlerinin AraŒtÄ±rÄ±lmasÄ±. <i>Journal of Polytechnic</i> , 0, , .	0.7	4
76	Strength estimation of unisothermally cured concretes with matrices. <i>Construction and Building Materials</i> , 2011, 25, 1455-1459.	7.2	3
77	Improvement of Khorasan mortar with fly ash for restoration of historical buildings. <i>Science and Engineering of Composite Materials</i> , 2014, 21, .	1.4	3
78	Properties of geopolymers produced with sugar press filter waste and fly ash under certain curing conditions. <i>Journal of Building Engineering</i> , 2021, 44, 102938.	3.4	3
79	Using the Maturity Method in Concrete Produced with Setting Agents. <i>Journal of Materials in Civil Engineering</i> , 2007, 19, 569-574.	2.9	2
80	Electrical Resistivity of Fly Ash Blended Cement Paste at Hardening Stage. <i>Medziagotyra</i> , 2016, 22, .	0.2	2
81	Experimental investigation of utilizing chemical additives and new generation corrosion inhibitors on reinforced concrete. <i>Research on Engineering Structures and Materials</i> , 2020, , .	0.4	2
82	A discussion of the paper "Physico-mechanical properties of aerated cement composites containing shredded rubber waste" by A. Benazzouk, O. Douzane, K. Mezreb and M. QuÄ©neudec. <i>Cement and Concrete Composites</i> , 2007, 29, 337-338.	10.7	1
83	Properties of High Content Ground Granulated Blast Furnace Slag Concrete. <i>Lecture Notes in Civil Engineering</i> , 2018, , 114-126.	0.4	1
84	Electrical Curing Application on Cement-based Mortar with Different Stress Intensity. <i>Lecture Notes in Civil Engineering</i> , 2018, , 462-468.	0.4	1
85	A Review on the Effect of Environmental Conditions on Concrete Evaporation and Bleeding. <i>Lecture Notes in Civil Engineering</i> , 2018, , 413-426.	0.4	1
86	Effect of high temperature on the mechanical behavior of cement-bonded wood composite produced with wood waste. <i>Challenge Journal of Structural Mechanics</i> , 2021, 7, 42.	0.3	1
87	Strength-Maturity Relations of Concrete for Different Cement Types. <i>Lecture Notes in Civil Engineering</i> , 2018, , 435-443.	0.4	1
88	Electrical and mechanical properties of historical mortars in Bursa/Turkey. , 2019, 18, 54-67.		1
89	Improving the Corrosion Resistance of Reinforcement Embedded in Concrete with High Strength Zinc, Zinc-Boron and Zinc-Boron-Nitrogen Nanocrystal Composite Coating. <i>Arabian Journal for Science and Engineering</i> , 0, , .	3.0	1
90	Fracture toughness of a solidified composite residual material. <i>Cement and Concrete Research</i> , 1996, 26, 521-527.	11.0	0

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91	Influence of concrete properties on bleeding and evaporation. Cement and Concrete Research, 2003, 34, 275-275.	11.0	0
92	Early strength gain of mortar with prehydration of the cements. Canadian Journal of Civil Engineering, 2010, 37, 125-130.	1.3	0
93	Properties of Mortars Produced with PKF Press Filter Waste. Lecture Notes in Civil Engineering, 2018, , 347-360.	0.4	0
94	ESTIMATION OF OPTIMUM FILTER CAKE IN PRODUCTION OF IMPERMEABLE LAYER USING FUZZY LOGIC. Environmental Engineering and Management Journal, 2014, 13, 353-360.	0.6	0
95	Effect of Hyper-plasticizer Additive Rates on the Properties of Polypropylene Fibre Tempered Concretes. Lecture Notes in Civil Engineering, 2018, , 309-320.	0.4	0
96	Use of Waste Concrete in Cement Production. Lecture Notes in Civil Engineering, 2018, , 321-330.	0.4	0
97	Reaktif Pudra BetonlarÄ±nÄ±n BasÄ±nÄŒ DayanÄ±mÄ±nÄ±n ANFIS ile Tahmini. Journal of Polytechnic, 0, , .	0.7	0
98	An investigation on the properties of woodcrete exposed to high temperature. Challenge Journal of Concrete Research Letters, 2020, 11, 105.	0.3	0
99	AtÄ±k Lastik KatÄ±lmÄ±ÅŒ Betonun SÄ±spansiyon Teorisi Ä°le Ä°ncelenmesi. El-Cezeri Journal of Science and Engineering, 0, , .	0.1	0