

# Xianming Shi

## List of Publications by Year in descending order

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207  
papers

8,486  
citations

53660

45  
h-index

54797

84  
g-index

232  
all docs

232  
docs citations

232  
times ranked

6207  
citing authors

#	ARTICLE	IF	CITATIONS
1	Road surface friction prediction using long short-term memory neural network based on historical data. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2022, 26, 34-45.	2.6	30
2	Techniques of corrosion monitoring of steel rebar in reinforced concrete structures: A review. <i>Structural Health Monitoring</i> , 2022, 21, 1879-1905.	4.3	30
3	Nanocomposite organic coatings for corrosion protection of metals: A review of recent advances. <i>Progress in Organic Coatings</i> , 2022, 162, 106573.	1.9	85
4	Understanding the role of unzipped carbon nanotubes in cement pastes. <i>Cement and Concrete Composites</i> , 2022, 126, 104366.	4.6	58
5	Reinforcement of cement paste by reduced graphene oxide: effect of dispersion state. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	7
6	Model development and prediction of anti-icing longevity of asphalt pavement with salt-storage additive. <i>Journal of Infrastructure Preservation and Resilience</i> , 2022, 3, .	1.5	9
7	Effects of Nanomaterials on Engineering Performance of a Potassium Methyl Silicate-Based Sealer for Cementitious Composite. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	2
8	An Accurate, Reproducible and Robust Model to Predict the Rutting of Asphalt Pavement: Neural Networks Coupled With Particle Swarm Optimization. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 22063-22072.	4.7	17
9	Influence of Electrochemical Remediation on the Hydraulic and Mechanical Behavior of a Metal-Contaminated Clayey Soil. , 2022, , .		0
10	Comparative study of mechanical strengths of cement pastes incorporating carbon nanomaterials with distinct surface chemistry and morphology. <i>Materials Letters</i> , 2022, 318, 132198.	1.3	3
11	Upcycling waste mask PP microfibers in portland cement paste: Surface treatment by graphene oxide. <i>Materials Letters</i> , 2022, 318, 132238.	1.3	14
12	Mechanism, characterization and factors of reaction between basalt and alkali: Exploratory investigation for potential application in geopolymer concrete. <i>Cement and Concrete Composites</i> , 2022, 130, 104526.	4.6	17
13	Interfacial nano-engineering by graphene oxide to enable better utilization of silica fume in cementitious composite. <i>Journal of Cleaner Production</i> , 2022, 354, 131381.	4.6	32
14	Development of predictive models of asphalt pavement distresses in Idaho through gene expression programming. <i>Neural Computing and Applications</i> , 2022, 34, 14913-14927.	3.2	11
15	Mechanical activation improves reactivity and reduces leaching of municipal solid waste incineration (MSWI) bottom ash in cement hydration system. <i>Journal of Cleaner Production</i> , 2022, 363, 132533.	4.6	20
16	Graphene coated sand for smart cement composites. <i>Construction and Building Materials</i> , 2022, 346, 128313.	3.2	26
17	Nano-engineered, Fly Ash-Based Geopolymer Composites: An Overview. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105334.	5.3	45
18	Effect of Surface Tension, Foaming Stabilizer, and Graphene Oxide on the Properties of Foamed Paste. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3123-3133.	0.9	0

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19	Toxicological impacts of roadway deicers on aquatic resources and human health: A review. <i>Water Environment Research</i> , 2021, 93, 1855-1881.	1.3	7
20	Durability of CFRP-wrapped concrete in cold regions: A laboratory evaluation of montmorillonite nanoclay-modified siloxane epoxy adhesive. <i>Construction and Building Materials</i> , 2021, 290, 123253.	3.2	10
21	Multiphase Sphere Modeling of High-Volume Fly Ash Concrete: Freezing-Thawing Performance. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, 04021168.	1.3	2
22	Bamboo fiber has engineering properties and performance suitable as reinforcement for asphalt mixture. <i>Construction and Building Materials</i> , 2021, 290, 123240.	3.2	35
23	Effect of rice husk ash surface modification by silane coupling agents on damping capacity of cement-based pastes. <i>Construction and Building Materials</i> , 2021, 296, 123730.	3.2	9
24	Conceptualizing How Agencies Could Leverage Weather-Related Connected Vehicle Application to Enhance Winter Road Services. <i>Journal of Cold Regions Engineering - ASCE</i> , 2021, 35, .	0.5	1
25	Laboratory evaluation of a sustainable additive for anti-icing asphalt. <i>Cold Regions Science and Technology</i> , 2021, 189, 103338.	1.6	13
26	Reactivity of coal fly ash used in cementitious binder systems: A state-of-the-art overview. <i>Fuel</i> , 2021, 301, 121031.	3.4	60
27	A hybrid yellow nanopigment as an environmentally sound alternative to lead chromate pigment for pavement markings. <i>Journal of Cleaner Production</i> , 2021, 319, 128733.	4.6	9
28	Development and Use of Salt-Storage Additives in Asphalt Pavement for Anti-Icing: Literature Review. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021, 147, .	0.8	13
29	Laboratory assessment of early-age durability benefits of a self-healing system to cementitious composites. <i>Journal of Building Engineering</i> , 2021, 44, 102602.	1.6	4
30	High-Volume Fly Ash-Based Cementitious Composites as Sustainable Materials: An Overview of Recent Advances. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-22.	0.4	1
31	Field Test of Living Snow Fences along Illinois Freeways. <i>Journal of Cold Regions Engineering - ASCE</i> , 2021, 35, .	0.5	1
32	A Yellow Lead-Free Pavement Marking Paint Based on Hybrid Dye-Clay Nanopigment: Morphological, Thermomechanical, and Photophysical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16466-16473.	3.2	4
33	Optimal overlays for preservation of concrete in cold climate: decision-making by the method of fuzzy comprehensive evaluation combined with AHP. <i>Journal of Infrastructure Preservation and Resilience</i> , 2021, 2, .	1.5	2
34	Performance evaluation of bitumen with a homogeneous dispersion of carbon nanotubes. <i>Carbon</i> , 2020, 158, 465-471.	5.4	57
35	Surface abrasion resistance of high-volume fly ash concrete modified by graphene oxide: Macro- and micro-perspectives. <i>Construction and Building Materials</i> , 2020, 237, 117686.	3.2	42
36	Chloride concentration distributions in fatigue damaged RC beams revealed by energy-dispersive X-ray spectroscopy. <i>Construction and Building Materials</i> , 2020, 234, 117396.	3.2	5

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37	Friction and Snowâ€Pavement Bond after Salting and Plowing Permeable Friction Surfaces. Transportation Research Record, 2020, 2674, 794-805.	1.0	6
38	Laboratory Investigation of Prewet Deicer Performance for Winter Mobility in the Pacific Northwest. Journal of Cold Regions Engineering - ASCE, 2020, 34, 04020022.	0.5	3
39	Effect of Ferrous Alloy Type, Beetroot Juice, Deicer Type and Concentration on Early-Stage Corrosion Behavior of Buried Pipes. Journal of Materials in Civil Engineering, 2020, 32, 04020281.	1.3	3
40	An amidoxime-functionalized polypropylene fiber: Competitive removal of Cu(II), Pb(II) and Zn(II) from wastewater and subsequent sequestration in cement mortar. Journal of Cleaner Production, 2020, 274, 123049.	4.6	27
41	Accelerated Laboratory Assessment of Discrete Sacrificial Anodes for Rehabilitation of Salt-Contaminated Reinforced Concrete. Journal of Materials in Civil Engineering, 2020, 32, 04020344.	1.3	6
42	Use of Biological Additives in Concrete Pavements: A Review of Opportunities and Challenges. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020036.	0.8	8
43	Connected Vehicle Technology for Improved Multimodal Winter Travel: Agency Perspective and a Conceptual Exploration. Sustainability, 2020, 12, 5071.	1.6	3
44	Self-Heating Graphene Nanocomposite Bricks: A Case Study in China. Materials, 2020, 13, 714.	1.3	8
45	Adhesion characteristics of graphene oxide modified asphalt unveiled by surface free energy and AFM-scanned micro-morphology. Construction and Building Materials, 2020, 244, 118404.	3.2	58
46	Graphene oxide modified, clinker-free cementitious paste with principally alkali-activated fly ash. Fuel, 2020, 269, 117418.	3.4	29
47	Effects of microwave, thermomechanical and chemical treatments of sewage sludge ash on its early-age behavior as supplementary cementitious material. Journal of Cleaner Production, 2020, 258, 120647.	4.6	20
48	Seismic Performance of Bridge Piers Constructed with PP-ECC at Potential Plastic Hinge Regions. Materials, 2020, 13, 1865.	1.3	6
49	Foreword from the editor-in-chief: the inaugural issue of journal of infrastructure preservation and resilience. Journal of Infrastructure Preservation and Resilience, 2020, 1, .	1.5	7
50	Mechanism of corrosion protection in chloride solution by an apple-based green inhibitor: experimental and theoretical studies. Journal of Infrastructure Preservation and Resilience, 2020, 1, .	1.5	32
51	More than smart pavements: connected infrastructure paves the way for enhanced winter safety and mobility on highways. Journal of Infrastructure Preservation and Resilience, 2020, 1, .	1.5	8
52	Functionalized layered double hydroxide applied to heavy metal ions absorption: A review. Nanotechnology Reviews, 2020, 9, 800-819.	2.6	63
53	Effects of Processed Agro-Residues on the Performance of Sodium Chloride Brine Anti-Icer. ACS Sustainable Chemistry and Engineering, 2019, 7, 13655-13667.	3.2	9
54	Developing Renewable Agro-Based Anti-Icers for Sustainable Winter Road Maintenance Operations. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	18

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55	Effect of admixing graphene oxide on abrasion resistance of ordinary portland cement concrete. <i>AlP Advances</i> , 2019, 9, .	0.6	14
56	Nanotechnology in Cement-Based Materials: A Review of Durability, Modeling, and Advanced Characterization. <i>Nanomaterials</i> , 2019, 9, 1213.	1.9	80
57	A targeted approach of employing nano-materials in high-volume fly ash concrete. <i>Cement and Concrete Composites</i> , 2019, 104, 103390.	4.6	23
58	Effect of chemically modified recycled carbon fiber composite on the mechanical properties of cementitious mortar. <i>Composites Part B: Engineering</i> , 2019, 173, 106853.	5.9	35
59	Synergistic Effects of Nano-Montmorillonite and Polyethylene Microfiber in Foamed Paste with High Volume Fly Ash Binder. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4465-4473.	0.9	12
60	Performance of hot and warm mix asphalt mixtures enhanced by nano-sized graphene oxide. <i>Construction and Building Materials</i> , 2019, 217, 273-282.	3.2	72
61	Effects of mixing sequence on mechanical properties of graphene oxide and warm mix additive composite modified asphalt binder. <i>Construction and Building Materials</i> , 2019, 217, 301-309.	3.2	27
62	Effects of alkali-treated recycled carbon fiber on the strength and free drying shrinkage of cementitious mortar. <i>Journal of Cleaner Production</i> , 2019, 228, 1187-1195.	4.6	29
63	The role of admixed graphene oxide in a cement hydration system. <i>Carbon</i> , 2019, 148, 141-150.	5.4	95
64	New insights into how MgCl <sub>2</sub> deteriorates Portland cement concrete. <i>Cement and Concrete Research</i> , 2019, 120, 244-255.	4.6	39
65	Permeable concrete pavements: A review of environmental benefits and durability. <i>Journal of Cleaner Production</i> , 2019, 210, 1605-1621.	4.6	146
66	Enhancing degradation and corrosion resistance of AZ31 magnesium alloy through hydrophobic coating. <i>Materials Chemistry and Physics</i> , 2019, 225, 426-432.	2.0	27
67	Laboratory investigation of graphene oxide suspension as a surface sealer for cementitious mortars. <i>Construction and Building Materials</i> , 2018, 162, 65-79.	3.2	14
68	Performance evaluation and modification mechanism analysis of asphalt binders modified by graphene oxide. <i>Construction and Building Materials</i> , 2018, 163, 880-889.	3.2	86
69	Influence of graphene oxide in a chemically activated fly ash. <i>Fuel</i> , 2018, 226, 644-657.	3.4	60
70	Characteristics and applications of fly ash as a sustainable construction material: A state-of-the-art review. <i>Resources, Conservation and Recycling</i> , 2018, 136, 95-109.	5.3	322
71	Impact of nanoclay and carbon microfiber in combating the deterioration of asphalt concrete by non-chloride deicers. <i>Construction and Building Materials</i> , 2018, 160, 514-525.	3.2	25
72	Harvest Energy from the Water. <i>Transactions on Embedded Computing Systems</i> , 2018, 17, 1-24.	2.1	7

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73	Electrochemical Chloride Extraction and Inhibitor Injection in Salt-Contaminated Repair Mortar. International Journal of Electrochemical Science, 2018, 13, 498-513.	0.5	3
74	Thin Nacre-Biomimetic Coating with Super-Anticorrosion Performance. ACS Nano, 2018, 12, 10189-10200.	7.3	114
75	Statistical Characteristics of Microhardness of Hardened Cement Paste. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 924-931.	0.4	10
76	Monitoring of reinforced concrete corrosion. , 2018, , 69-95.		5
77	Evaluation of mechanical performance and modification mechanism of asphalt modified with graphene oxide and warm mix additives. Journal of Cleaner Production, 2018, 193, 87-96.	4.6	86
78	Graphene Oxide-Modified Pervious Concrete with Fly Ash as the Sole Binder. ACI Materials Journal, 2018, 115, .	0.3	6
79	Nano-montmorillonite modified foamed paste with a high volume fly ash binder. RSC Advances, 2017, 7, 9803-9812.	1.7	18
80	Effectiveness of Liquid Agricultural By-Products and Solid Complex Chlorides for Snow and Ice Control. Journal of Cold Regions Engineering - ASCE, 2017, 31, 04016006.	0.5	11
81	Effect of nanomaterials and electrode configuration on soil consolidation by electroosmosis: experimental and modeling studies. RSC Advances, 2017, 7, 12103-12112.	1.7	9
82	Corrosion of metals exposed to 25% magnesium chloride solution and tensile stress: Field and laboratory studies. Case Studies in Construction Materials, 2017, 7, 1-14.	0.8	3
83	Managing airport stormwater containing deicers: challenges and opportunities. Frontiers of Structural and Civil Engineering, 2017, 11, 35-46.	1.2	13
84	Influence of releasing graphene oxide into a clayey sand: physical and mechanical properties. RSC Advances, 2017, 7, 18060-18067.	1.7	31
85	Use of Snow Fences to Reduce the Impacts of Snowdrifts on Highways: Renewed Perspective. Transportation Research Record, 2017, 2613, 45-51.	1.0	4
86	Mechanism for Soil Reinforcement by Electroosmosis in the Presence of Calcium Chloride. Chemical Engineering Communications, 2017, 204, 424-433.	1.5	8
87	Application of Nano-SiO <sub>2</sub> and Nano-Fe <sub>2</sub> O <sub>3</sub> for Protection of Steel Rebar in Chloride Contaminated Concrete: Epoxy Nanocomposite Coatings and Nano-Modified Mortars. Journal of Nanoscience and Nanotechnology, 2017, 17, 427-436.	0.9	29
88	Exploratory Investigation into a Chemically Activated Fly Ash Binder for Mortars. Journal of Materials in Civil Engineering, 2017, 29, 06017018.	1.3	12
89	Electron Probe Microanalysis Investigation into High-Volume Fly Ash Mortars. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	13
90	Laboratory Investigation of Naturally Sourced Liquid Deicers and Subsequent Decision Support. Journal of Cold Regions Engineering - ASCE, 2017, 31, .	0.5	7

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91	Laboratory Investigation of Washing Practices and Bio-Based Additive for Mitigating Metallic Corrosion by Magnesium Chloride Deicer. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, 04016187.	1.3	14
92	Impacts of Potassium Acetate and Sodium-Chloride Deicers on Concrete. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	29
93	Laboratory Investigation into the Modification of Transport Properties of High-Volume Fly Ash Mortar by Chemical Admixtures. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, 04017184.	1.3	8
94	Snow Removal Performance Metrics: Past, Present, and Future. <i>Transportation Research Record</i> , 2017, 2613, 61-70.	1.0	3
95	A peony-leaves-derived liquid corrosion inhibitor: protecting carbon steel from NaCl. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 359-379.	2.1	17
96	Preparation of Au nano-tips for in-situ Investigation of Early-Age Localized Corrosion of Three Metals by Scanning Electrochemical Microscope. <i>International Journal of Electrochemical Science</i> , 2017, 12, 3732-3740.	0.5	2
97	Developing an abiotic capsule-based self-healing system for cementitious materials: The state of knowledge. <i>Construction and Building Materials</i> , 2017, 156, 1096-1113.	3.2	33
98	Transport Properties of High Volume Fly Ash Mortar with Various Chemical Admixtures. <i>DEStech Transactions on Engineering and Technology Research</i> , 2017, , .	0.0	0
99	Graphene Oxide Modified Pervious Concrete with Fly Ash as Sole Binder. <i>DEStech Transactions on Engineering and Technology Research</i> , 2017, , .	0.0	1
100	Investigation into the Synergistic Effect of Nano-sized Materials on the Anti-corrosion Properties of a Waterborne Epoxy Coating. <i>International Journal of Electrochemical Science</i> , 2016, 11, 6023-6042.	0.5	28
101	Microwave-Assisted Solvent-Free Synthesis of Zeolitic Imidazolate Framework-67. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	10
102	Effectiveness of Products in Managing Metallic Corrosion Induced by Cyclic Deicer Exposure: Laboratory Study Using Multielectrode Array Sensors, Electrochemical Impedance, and Laser Profilometer. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	5
103	Effect of Nanoparticles on the Thermal and Mechanical Properties of Epoxy Coatings. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9874-9881.	0.9	89
104	Effect of electrochemical chloride extraction treatment on the corrosion of steel rebar in chloride contaminated mortar. <i>Anti-Corrosion Methods and Materials</i> , 2016, 63, 377-385.	0.6	9
105	Accelerated Laboratory Test Suggests the Importance of Film Integrity of Sealers on the Protection of Concrete from Deicer Scaling. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	15
106	Preserving the value of highway maintenance equipment against roadway deicers: a case study and preliminary cost benefit analysis. <i>Anti-Corrosion Methods and Materials</i> , 2016, 63, 1-8.	0.6	10
107	Experimental and modeling studies on installation of arc sprayed Zn anodes for protection of reinforced concrete structures. <i>Frontiers of Structural and Civil Engineering</i> , 2016, 10, 1-11.	1.2	6
108	Proactive Approaches to Protecting Maintenance Equipment against Chloride Roadway Deicers. <i>Journal of Cold Regions Engineering - ASCE</i> , 2016, 30, 06014005.	0.5	0



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109	Upcycling of Waste Materials: Green Binder Prepared with Pure Coal Fly Ash. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, 04015138.	1.3	10
110	Safety Effects of Fixed Automated Spray Technology Systems. <i>Transportation Research Record</i> , 2015, 2482, 102-109.	1.0	6
111	Green Stormwater Infrastructure Strategies for Airports: Challenges and Opportunities. , 2015, , .		2
112	Deicer Impacts on Concrete Bridge Decks: A Comparative Study of Field Cores from Potassium Acetate and Sodium Chloride Environments. , 2015, , .		3
113	Managing Metallic Corrosion on Winter Maintenance Equipment Assets. , 2015, , .		5
114	Effect of Electrical Injection of Corrosion Inhibitor on the Corrosion of Steel Rebar in Chloride-Contaminated Repair Mortar. <i>International Journal of Corrosion</i> , 2015, 2015, 1-10.	0.6	11
115	Improved User Experience and Scientific Understanding of Anti-Icing and Pre-Wetting for Winter Roadway Maintenance in North America. , 2015, , .		9
116	Impacts of Specialized Hauling Vehicles on Highway Infrastructure, the Economy, and Safety: Renewed Perspective. , 2015, , .		0
117	Quality Control of Precipitation Data for Wet Pavement Accident Analysis. , 2015, , .		0
118	Life-Cycle Performance of Concrete Bridge Decks Exposed to Deicer Environments: A New Risk Rating Method. , 2015, , .		2
119	Cyber-physical systems for water sustainability: challenges and opportunities. , 2015, 53, 216-222.		108
120	Water Quality Implications and the Toxicological Effects of Chloride-Based Deicers. , 2015, , .		9
121	Review on the Toxicological Effects of Chloride-Based Deicers: Impacted Environments and Assessment Methods. , 2015, , .		1
122	Influence of Surface Sealers on the Properties of Internally Cured Cement Mortars Containing Saturated Fine Lightweight Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04015037.	1.3	9
123	Potential Deicer Effects on Concrete Bridge Decks: Developing Exposure Maps. , 2014, , .		1
124	Evaluating Snow and Ice Control Chemicals for Environmentally Sustainable Highway Maintenance Operations. <i>Journal of Transportation Engineering</i> , 2014, 140, .	0.9	30
125	Corrosion inhibitors for metals in maintenance equipment: introduction and recent developments. <i>Corrosion Reviews</i> , 2014, 32, 163-181.	1.0	23
126	Correlating lab and field tests for evaluation of deicing and anti-icing chemicals: A review of potential approaches. <i>Cold Regions Science and Technology</i> , 2014, 97, 21-32.	1.6	66



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127	Accelerated laboratory evaluation of surface treatments for protecting concrete bridge decks from salt scaling. <i>Construction and Building Materials</i> , 2014, 55, 128-135.	3.2	75
128	Sequestration of phosphorus from wastewater by cement-based or alternative cementitious materials. <i>Water Research</i> , 2014, 62, 88-96.	5.3	44
129	A Benefit-Cost Analysis Toolkit for Road Weather Management Technologies. , 2014, , .		2
130	Evaluation of Winter Maintenance Chemicals and Crashes with an Artificial Neural Network. <i>Transportation Research Record</i> , 2014, 2440, 43-50.	1.0	20
131	Highway Winter Maintenance Operations at Extremely Cold Temperatures. , 2014, , .		4
132	Use of chloride-based ice control products for sustainable winter maintenance: A balanced perspective. <i>Cold Regions Science and Technology</i> , 2013, 86, 104-112.	1.6	83
133	Portland Cement Paste Modified by TiO <sub>2</sub> Nanoparticles: A Microstructure Perspective. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 11575-11582.	1.8	121
134	Anti-icing for key highway locations: fixed automated spray technology. <i>Canadian Journal of Civil Engineering</i> , 2013, 40, 11-18.	0.7	13
135	The use of nanotechnology to improve the bulk and surface properties of steel for structural applications. , 2013, , 75-107.		1
136	Rheological properties and chemical analysis of nanoclay and carbon microfiber modified asphalt with Fourier transform infrared spectroscopy. <i>Construction and Building Materials</i> , 2013, 38, 327-337.	3.2	212
137	Exploring the performance and corrosivity of chloride deicer solutions: Laboratory investigation and quantitative modeling. <i>Cold Regions Science and Technology</i> , 2013, 86, 36-44.	1.6	33
138	Transport Properties of Carbon-Nanotube/Cement Composites. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 184-189.	1.2	120
139	Rheological Properties and Chemical Bonding of Asphalt Modified with Nanosilica. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1619-1630.	1.3	278
140	Hydrogen peroxide sensing using ultrathin platinum-coated gold nanoparticles with core@shell structure. <i>Biosensors and Bioelectronics</i> , 2013, 41, 576-581.	5.3	80
141	High-Performance Electrocatalytic Activity of Pt Nanoparticles/Chitosan 3-D Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 334-340.	0.4	3
142	Electrochemically aged arc-sprayed zinc coating to concrete: bond strength study. <i>Surface Engineering</i> , 2013, 29, 55-60.	1.1	1
143	Laboratory study on the properties of plastering mortar modified by feather fibers. <i>Science and Engineering of Composite Materials</i> , 2013, 20, 293-299.	0.6	7
144	Corrosion by Chloride Deicers on Highway Maintenance Equipment. <i>Transportation Research Record</i> , 2013, 2361, 106-113.	1.0	32

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145	Estimating Statewide Benefits of Winter Maintenance Operations. Transportation Research Record, 2013, 2329, 17-23.	1.0	18
146	Evaluation of Asphalt Blended With Low Percentage of Carbon Micro-Fiber and Nanoclay. Journal of Testing and Evaluation, 2013, 41, 278-288.	0.4	28
147	Strategies to Mitigate the Impacts of Chloride Roadway Deicers on the Natural Environment. , 2013, , .		11
148	Stochastic Modeling of Service Life of Concrete Structures in Chloride-Laden Environments. Journal of Materials in Civil Engineering, 2012, 24, 381-390.	1.3	26
149	Modeling cathodic prevention for unconventional concrete in salt-laden environment. Anti-Corrosion Methods and Materials, 2012, 59, 121-131.	0.6	9
150	Vehicle-based sensor technologies for winter highway operations. IET Intelligent Transport Systems, 2012, 6, 336.	1.7	18
151	Holistic Approach to Decision Making in the Formulation and Selection of Anti-Icing Products. Journal of Cold Regions Engineering - ASCE, 2012, 26, 101-117.	0.5	13
152	Anti-icing Performance of a Superhydrophobic PDMS/Modified Nano-silica Hybrid Coating for Insulators. Journal of Adhesion Science and Technology, 2012, 26, 665-679.	1.4	90
153	Longevity of corrosion inhibitors and performance of liquid deicer products under field storage. Canadian Journal of Civil Engineering, 2012, 39, 117-127.	0.7	11
154	Exploring the Interactions of Chloride Deicer Solutions with Nanomodified and Micromodified Asphalt Mixtures Using Artificial Neural Networks. Journal of Materials in Civil Engineering, 2012, 24, 805-815.	1.3	43
155	Longevity of corrosion inhibitors and performance of anti-icing products after pavement application: A case study. Cold Regions Science and Technology, 2012, 83-84, 89-97.	1.6	5
156	Percolation backbone structure analysis in electrically conductive carbon fiber reinforced cement composites. Composites Part B: Engineering, 2012, 43, 3270-3275.	5.9	41
157	Ultralow platinum-loading bimetallic nanoflowers: Fabrication and high-performance electrocatalytic activity towards the oxidation of formic acid. Electrochemistry Communications, 2012, 25, 19-22.	2.3	12
158	A Regional Pilot Weather Information System for Surface Transportation and Incident Management: Concept of Operations. , 2012, , .		0
159	Environmental Impacts of Chemicals for Snow and Ice Control: State of the Knowledge. Water, Air, and Soil Pollution, 2012, 223, 2751-2770.	1.1	259
160	Durability of steel reinforced concrete in chloride environments: An overview. Construction and Building Materials, 2012, 30, 125-138.	3.2	651
161	Performance of asphalt binder blended with non-modified and polymer-modified nanoclay. Construction and Building Materials, 2012, 35, 159-170.	3.2	143
162	Electrochemical and mechanical properties of superhydrophobic aluminum substrates modified with nano-silica and fluorosilane. Surface and Coatings Technology, 2012, 206, 3700-3713.	2.2	41

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163	Development of Standard Laboratory Testing Procedures to Evaluate the Performance of Deicers. <i>Journal of Testing and Evaluation</i> , 2012, 40, 1015-1026.	0.4	22
164	Recent Progress in the Research on Microbially Influenced Corrosion: A Bird's Eye View through the Engineering Lens. <i>Recent Patents on Corrosion Science</i> , 2011, 1, 118-131.	0.1	7
165	Ionic transport in cementitious materials under an externally applied electric field: Finite element modeling. <i>Construction and Building Materials</i> , 2011, 27, 450-450.	3.2	9
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