## Canlin Zhang

List of Publications by Year in descending order

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75	2,126	28 h-index	42
papers	citations		g-index
75	75	75	1040 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Effects of thermal oxidative ageing on dynamic viscosity, TG/DTG, DTA and FTIR of SBS- and SBS/sulfur-modified asphalts. Construction and Building Materials, 2011, 25, 129-137.	3.2	228
2	Effect of ageing on rheological properties of storage-stable SBS/sulfur-modified asphalts. Journal of Hazardous Materials, 2010, 182, 507-517.	6.5	159
3	Preparation and application of microcapsules containing toluene-di-isocyanate for self-healing of concrete. Construction and Building Materials, 2019, 202, 762-769.	3.2	74
4	Effect of expanded vermiculite on aging properties of bitumen. Construction and Building Materials, 2012, 26, 244-248.	3.2	60
5	Influence of UV aging on the rheological properties of bitumen modified with surface organic layered double hydroxides. Construction and Building Materials, 2016, 123, 574-580.	3.2	60
6	Effect of nano-zinc oxide on ultraviolet aging properties of bitumen with 60/80 penetration grade. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3249-3257.	1.3	56
7	Synthesis and characterization of layered double hydroxides intercalated by UV absorbents and their application in improving UV aging resistance of bitumen. Applied Clay Science, 2015, 114, 112-119.	2.6	55
8	Effect of ion chelating agent on self-healing performance of Cement-based materials. Construction and Building Materials, 2018, 190, 308-316.	3.2	53
9	Synthesis and characterization of organic intercalated layered double hydroxides and their application in bitumen modification. Materials Chemistry and Physics, 2015, 152, 54-61.	2.0	52
10	Microstructures and thermal aging mechanism of expanded vermiculite modified bitumen. Construction and Building Materials, 2013, 47, 919-926.	3.2	47
11	Rheological evaluation of bitumen containing different ultraviolet absorbers. Construction and Building Materials, 2012, 29, 591-596.	3.2	43
12	Study on the gradient heating and healing behaviors of asphalt concrete induced by induction heating. Construction and Building Materials, 2019, 208, 638-645.	3.2	42
13	Preparation and characterization of active rejuvenated SBS modified bitumen for the sustainable development of high-grade asphalt pavement. Journal of Cleaner Production, 2020, 273, 123012.	4.6	42
14	Investigation of Molecular Structure and Thermal Properties of Thermo-Oxidative Aged SBS in Blends and Their Relations. Materials, 2017, 10, 768.	1.3	41
15	Effect of different rejuvenators on the rheological properties of aged SBS modified bitumen in long term aging. Construction and Building Materials, 2019, 215, 709-717.	3.2	41
16	Study on all-components regeneration of ultraviolet aged SBS modified asphalt for high-performance recycling. Journal of Cleaner Production, 2020, 276, 123376.	4.6	41
17	Preparation and characterization of nano-SiO2/paraffin/PE wax composite shell microcapsules containing TDI for self-healing of cementitious materials. Construction and Building Materials, 2020, 231, 117060.	3.2	39
18	Effect of reactive rejuvenators on structure and properties of UV-aged SBS modified bitumen. Construction and Building Materials, 2017, 155, 780-788.	3.2	37

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19	Effect of expanded vermiculite on microstructures and aging properties of styrene–butadiene–styrene copolymer modified bitumen. Construction and Building Materials, 2013, 40, 224-230.	3.2	36
20	Structure and artificial ageing behavior of organo montmorillonite bitumen nanocomposites. Applied Clay Science, 2013, 72, 49-54.	2.6	35
21	Effect of reactive rejuvenating system on physical properties and rheological characteristics of aged SBS modified bitumen. Construction and Building Materials, 2018, 176, 35-42.	3.2	34
22	Laboratory evaluation of rejuvenation effect of reactive rejuvenator on aged SBS modified bitumen. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	33
23	Investigation of $\hat{I}^3$ -(2,3-Epoxypropoxy)propyltrimethoxy Silane Surface Modified Layered Double Hydroxides Improving UV Ageing Resistance of Asphalt. Materials, 2017, 10, 78.	1.3	33
24	Investigation of self-healing capability on surface and internal cracks of cement mortar with ion chelator. Construction and Building Materials, 2020, 236, 117598.	3.2	32
25	Performance Evaluation of SBS Modified Asphalt with Different Anti-aging Additives. Journal of Testing and Evaluation, 2012, 40, 728-733.	0.4	32
26	Effect of Layered Double Hydroxides (LDHs) on Aging Properties of Bitumen. Journal of Testing and Evaluation, 2012, 40, 734-739.	0.4	32
27	Effect of temperatures on self-healing capabilities of concrete with different shell composition microcapsules containing toluene-di-isocyanate. Construction and Building Materials, 2020, 247, 118575.	3.2	31
28	Evaluation of ultraviolet aging resistance of bitumen containing different organic layered double hydroxides. Construction and Building Materials, 2018, 192, 696-703.	3.2	29
29	Structure and performance evaluation on aged SBS modified bitumen with bi- or tri-epoxy reactive rejuvenating system. Construction and Building Materials, 2017, 151, 479-486.	3.2	28
30	Rheological and aging properties of ultraviolet absorber/styrene–butadiene–styrene–modified bitumens. Journal of Applied Polymer Science, 2013, 128, 2571-2577.	1.3	25
31	Investigation of the ultraviolet aging resistance of organic layered double hydroxides modified bitumen. Construction and Building Materials, 2015, 96, 127-134.	3.2	24
32	Effect of 4,4′-stilbenedicarboxylic acid-intercalated layered double hydroxides on UV aging resistance of bitumen. RSC Advances, 2015, 5, 95504-95511.	1.7	22
33	Evaluation of ultraviolet aging resistance of bitumen modified with isobutyltriethoxysilane surface organic grafted LDH. Construction and Building Materials, 2020, 241, 118016.	3.2	22
34	Effect of moisture conditioning on mechanical and healing properties of inductive asphalt concrete. Construction and Building Materials, 2020, 241, 118139.	3.2	22
35	Effect of Rectorite and Its Organic Modification on Properties of Bitumen. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	21
36	Effect of etched Layered double hydroxides on anti ultraviolet aging properties of bitumen. Construction and Building Materials, 2018, 178, 42-50.	3.2	19

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37	Investigation of ultraviolet aging resistance of bitumen modified by layered double hydroxides with different particle sizes. Construction and Building Materials, 2019, 196, 166-174.	3.2	19
38	Laboratory evaluation of the effect of rejuvenators on the interface performance of rejuvenated SBS modified bitumen mixture by surface free energy method. Construction and Building Materials, 2021, 271, 121866.	3.2	18
39	Intercalation of p-methycinnamic acid anion into Zn-Al layered double hydroxide to improve UV aging resistance of asphalt. AIP Advances, 2015, 5, .	0.6	17
40	Physical and UV Aging Resistance Properties of Asphalts Modified by UV Absorbent Composited and Intercalated Layered Double Hydroxides. Journal of Nanoscience and Nanotechnology, 2016, 16, 12714-12719.	0.9	17
41	Investigation of road performances of reaction-rejuvenated SBS modified bitumen mixture. Construction and Building Materials, 2018, 183, 523-533.	3.2	17
42	Investigation of ion chelator and mineral admixtures improving salt-frost resistance of cement-based materials. Construction and Building Materials, 2019, 227, 116670.	3.2	17
43	Preparation and characterization of lignosulfonate grafted layered double hydroxides and their applications as anti-ultraviolet additives for bitumen. Construction and Building Materials, 2019, 195, 432-440.	3.2	17
44	Evaluation of aging performance of bitumen containing layered double hydroxides intercalated by UV absorbents. International Journal of Pavement Engineering, 2019, 20, 499-505.	2.2	17
45	Preparation and properties of silane coupling agent modified zeolite as warm mix additive. Construction and Building Materials, 2020, 244, 118408.	3.2	17
46	Effect of layered double hydroxides on ultraviolet aging resistance of SBS modified bitumen membrane. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 494-499.	0.4	16
47	Influence of characteristics of recycling agent on the early and long-term performance of regenerated SBS modified bitumen. Construction and Building Materials, 2020, 237, 117631.	3.2	16
48	Effect of ion chelator on hydration process of Portland cement. Construction and Building Materials, 2020, 259, 119727.	3.2	16
49	Influence of external environment on self-repairing ability of the cement-based materials containing paraffin/toluene-di-isocyanate microcapsules. Construction and Building Materials, 2021, 281, 122584.	3.2	15
50	Effect of surface organic modified layered double hydroxide on UV ageing resistance of bitumen. Petroleum Science and Technology, 2017, 35, 488-494.	0.7	14
51	Evaluation of viscosity-temperature characteristics and rheological properties of rejuvenated SBS modified bitumen with active warm additive. Construction and Building Materials, 2020, 236, 117548.	3.2	14
52	Effect of ion chelator on pore structure, mechanical property and self-healing capability of seawater exposed mortar. Construction and Building Materials, 2020, 246, 118480.	3.2	14
53	Effects of Reactive Chain Extension Rejuvenation Systems on the Viscosity–Temperature Characteristics, Rheological Properties, and Morphology of Aged Styrene–Butadiene–Styrene-Modified Bitumen. ACS Sustainable Chemistry and Engineering, 2021, 9, 16474-16484.	3.2	14
54	Effect of salicylic acid intercalated layered double hydroxides on ultraviolet aging properties of bitumen. Materials and Structures/Materiaux Et Constructions, 2016, 49, 1235-1244.	1.3	13

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55	Rheological properties of lignosulfonate intercalated layered double hydroxides modified bitumen before and after ultraviolet aging. Construction and Building Materials, 2018, 180, 342-350.	3.2	13
56	Workability and Rheological Property Evolution of Active Rejuvenated Styrene–Butadiene–Styrene-Modified Bitumen in the Early Stage. ACS Sustainable Chemistry and Engineering, 2020, 8, 19129-19139.	3.2	13
57	Preparation of reactive chain extension rejuvenators and its application in the aged SBS modified bitumen sustainable recycling. Journal of Cleaner Production, 2021, 314, 127954.	4.6	13
58	Development of novel composite rejuvenators for efficient recycling of aged SBS modified bitumen. Fuel, 2022, 318, 123715.	3.4	13
59	Assessment on Physical and Rheological Properties of Aged SBS Modified Bitumen Containing Rejuvenating Systems of Isocyanate and Epoxy Substances. Materials, 2019, 12, 618.	1.3	12
60	Preparation and characterization of lignin grafted layered double hydroxides for sustainable service of bitumen under ultraviolet light. Journal of Cleaner Production, 2022, 350, 131536.	4.6	12
61	Effect of silane coupling agent modified zeolite warm mix additives on properties of asphalt. Construction and Building Materials, 2020, 259, 119713.	3.2	11
62	Preparation and performance of 3-aminopropyltriethoxysilane surface modified layered double hydroxides on ultraviolet aging resistance of bitumen. Construction and Building Materials, 2021, 292, 123411.	3.2	10
63	A Study on Photo-thermal Coupled Aging Kinetics of Bitumen. Journal of Testing and Evaluation, 2012, 40, 20120065.	0.4	10
64	Investigation of migration and self-healing ability of ion chelator in cement-based materials by a novel method. Construction and Building Materials, 2020, 262, 120917.	3.2	9
65	Effect of ion chelator on microstructure and properties of cement-based materials under sulfate dry-wet cycle attack. Construction and Building Materials, 2020, 257, 119527.	3.2	9
66	Synergistic effect of ion chelating agent and inorganic compound on pore structure, mechanical and self-healing performance of cement-based materials. Smart Materials and Structures, 2021, 30, 015011.	1.8	8
67	SBS Modified Bitumen with Organic Layered Double Hydroxides: Compatibility and Aging Effects on Rheological Properties. Materials, 2021, 14, 4201.	1.3	6
68	Investigation of anti-aging of SBS modified bitumen containing surface organic layered double hydroxide. RSC Advances, 2021, 11, 22131-22139.	1.7	6
69	Influence of ion chelator and CO2-rich environment on self-healing capabilities of cement-based materials. Construction and Building Materials, 2020, 259, 119685.	3.2	4
70	Influence of ion chelator on pore structure, water transport and crack-healing properties of cement pastes incorporating high-volume fly ash and blast-furnace slag. Journal of Building Engineering, 2022, 55, 104696.	1.6	3
71	The rheological behavior of rejuvenated SBS modified asphalt incorporating oil slurry and tri-epoxide. Petroleum Science and Technology, 2019, 37, 1523-1528.	0.7	2
72	Preparation of dodecyltrimethoxysilane surface organic LDHs and application in aging resistance of SBS modified bitumen. Materials Research Express, 2021, 8, 075101.	0.8	2

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73	Preparation and Characterization of Lignosulfonate Intercalated Layered Double Hydroxides and Their Application in Improving Ultraviolet Aging Resistance for Bitumen. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 446-452.	0.4	1
74	Influence of oxygen partial pressure on SmBa2Cu3O7-δ film deposited by laser chemical vapor deposition. Journal of Asian Ceramic Societies, 2021, 9, 197-207.	1.0	1
75	Evaluation of 3-methacryloxypropyltrimethoxysilane organic layered double hydroxide on the aging resistance of bitumen. IOP Conference Series: Materials Science and Engineering, 2021, 1167, 012016.	0.3	0