Shi Xu

List of Publications by Year
in descending order

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15 papers	498 citations	758635 12 h-index	1125271 13 g-index
15 all docs	15 docs citations	15 times ranked	293 citing authors

#	Article	IF	Citations
1	Selfâ€Healing Asphalt Review: From Idea to Practice. Advanced Materials Interfaces, 2018, 5, 1800536.	1.9	120
2	Calcium alginate capsules encapsulating rejuvenator as healing system for asphalt mastic. Construction and Building Materials, 2018, 169, 379-387.	3.2	87
3	A novel self-healing system: Towards a sustainable porous asphalt. Journal of Cleaner Production, 2020, 259, 120815.	4.6	49
4	On the rejuvenator dosage optimization for aged SBS modified bitumen. Construction and Building Materials, 2021, 271, 121913.	3.2	37
5	Investigation of the Potential Use of Calcium Alginate Capsules for Self-Healing in Porous Asphalt Concrete. Materials, 2019, 12, 168.	1.3	36
6	Effect of different aqueous solutions on physicochemical properties of asphalt binder. Construction and Building Materials, 2021, 286, 122810.	3.2	36
7	The role of rejuvenators in embedded damage healing for asphalt pavement. Materials and Design, 2021, 202, 109564.	3.3	32
8	Optimization of the Calcium Alginate Capsules for Self-Healing Asphalt. Applied Sciences (Switzerland), 2019, 9, 468.	1.3	30
9	Experimental Investigation of the Performance of a Hybrid Self-Healing System in Porous Asphalt under Fatigue Loadings. Materials, 2021, 14, 3415.	1.3	17
10	Effects of Reactive Chain Extension Rejuvenation Systems on the Viscosityâ€“Temperature Characteristics, Rheological Properties, and Morphology of Aged Styreneâ€“Butadieneâ€“Styrene-Modified Bitumen. ACS Sustainable Chemistry and Engineering, 2021, 9, 16474-16484.	3.2	14
11	The Prospect of Microwave Heating: Towards a Faster and Deeper Crack Healing in Asphalt Pavement. Processes, 2021, 9, 507.	1.3	13
12	Development of novel composite rejuvenators for efficient recycling of aged SBS modified bitumen. Fuel, 2022, 318, 123715.	3.4	13
13	The influence of asphalt ageing on induction healing effect on porous asphalt concrete. RILEM Technical Letters, 0, 3, 98-103.	0.0	8
14	SBS Modified Bitumen with Organic Layered Double Hydroxides: Compatibility and Aging Effects on Rheological Properties. Materials, 2021, 14, 4201.	1.3	6
15	Investigation of Aging Resistance of Asphalts from Different Crude Oils Based on Molecular Structure and Rheological Properties. Journal of Testing and Evaluation, 2022, 50, 2137-2155.	0.4	0