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