

Cheng Bian

List of Publications by Year in descending order

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9
papers

324
citations

1307594

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1474206

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all docs

9
docs citations

9
times ranked

318
citing authors

#	ARTICLE	IF	CITATIONS
1	The thermal stability and pyrolysis mechanism of boron-containing phenolic resins: The effect of phenyl borates on the char formation. <i>Applied Surface Science</i> , 2015, 331, 519-529.	6.1	122
2	Effect of chemical structure and cross-link density on the heat resistance of phenolic resin. <i>Polymer Degradation and Stability</i> , 2015, 111, 239-246.	5.8	72
3	Adhesion improvement of electroless copper plating on phenolic resin matrix composite through a tin-free sensitization process. <i>Applied Surface Science</i> , 2013, 271, 303-310.	6.1	38
4	Influence of borate structure on the thermal stability of boron-containing phenolic resins: A DFT study. <i>Polymer Degradation and Stability</i> , 2015, 119, 190-197.	5.8	24
5	Thermal stability of phenolic resin: new insights based on bond dissociation energy and reactivity of functional groups. <i>RSC Advances</i> , 2016, 6, 55007-55016.	3.6	22
6	Role of Nonbond Interactions in the Glass Transition of Novolac-Type Phenolic Resin: A Molecular Dynamics Study. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9440-9451.	3.7	20
7	Structure and thermal pyrolysis mechanism of poly(resorcinol borate) with high char yield. <i>Polymer Degradation and Stability</i> , 2016, 130, 328-337.	5.8	19
8	Initial reaction mechanism between HO \cdot and bisphenol \cdot F: Conformational dependence and the role of nonbond interactions. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25342.	2.0	4
9	The temperature dependence of the coefficients of thermal expansion of phenolic resin. <i>Polymer Composites</i> , 2016, 37, 146-152.	4.6	3