1.	Record Nr.	UNISA996216256703316
	Titolo	Material aspects in automotive catalytic converters
	Pubbl/distr/stampa	[Place of publication not identified], : Deutsche Gesellschaft für Materialkunde, 2002
	ISBN	1-280-55827-X
		9786610558278
		3-527-60053-1
	Descrizione fisica	1 online resource (281 pages)
	Disciplina	629.25/28
	Soggetti	Automobiles - Materials - Catalytic converters
		Automotive Engineering
		Mechanical Engineering
		Engineering & Applied Sciences
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Sommario/riassunto	MACC 2001 is the successor meeting of the first international conference on Materials Aspects in Automotive Catalytic Converters, MACC '97, and concentrates on the high-temperature mechanical and oxidation behaviour of both metal-supported and ceramic-supported automotive catalysts. The metal-supported catalyst is based on a ferritic steel with 5-8% aluminium, 17-22% chromium and small additions of reactive elements. More than 20,000,000 units were produced in 1999. The ceramic-supported catalytic converter is based on corderite. The production rate of ceramic-supported catalysts is much higher. Both materials have specific advantages and disadvantages which determine the application for a given car model. In addition to these two basic groups of catalytic carriers, the scope of the conference also refers to coating aspects, since the influence of the coating composition is becoming more and more important. The car and car-supplying industries report on their future requirements with respect to performance and service life. Maintaining good performance is mandatory particularly in the view of thinner supports and higher