

## Properties of Porous Silicon Nitride Bonded-Silicon Carbide Ceramics For Diesel Particle Filter

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**Abstract-** Diesel engines have been preferable engines for heavy, medium and light duty vehicle applications due to their superior performance and fuel economy. However, concerns with their emissions, which are highly toxic air pollutants, put some limitations to their widespread use especially in urban transport applications. Recent legislations for vehicle homologation which are implemented mainly in USA and EU, enforce installation of highly sophisticated exhaust gas after-treatment system to diesel engines. PM emissions are the inevitable combustion products due to the nature of diesel engine combustion and are mainly composed of carbon, hydrocarbons and inorganics. They are in the size range from 20 to 200 nm and diesel particle filter (DPF) has been the most effective solution to minimize them for the last decade as it can reduce PM's with efficiency over 90%. On the other hand, a DPF may have negative impacts on the engine performance and fuel economy if the exhaust back pressure, due to the DPF loading, increases to unacceptable levels. Therefore, developing an efficient DPF requires innovative design of filter microstructure as DPF efficiency and the exhaust back pressure typically have a direct relationship. Consequently, it is difficult to achieve simultaneous better values of the pressure drop and filtering yield.

In this study, silicon nitride bonded-silicon carbide ceramics was developed by using unique compositional design to obtain rod-like crystals on the porous structure in order to increase filtration efficiency. The influence of starting particle sizes (SiC and Si<sub>3</sub>N<sub>4</sub>) on the microstructural development was investigated. The sintering was carried out at atmosphere controlled high temperature furnace under flowing nitrogen gas. Microstructural investigations were performed by FEG-SEM. The phase analysis was done by XRD equipment. Porosity content and pore size were determined by using Archimedes principle and mercury porosimetry, respectively. The results showed that desired porosity level for DPFs was obtained. The rod-like crystal growth was achieved but does not show homogenous distribution.

**Keywords-** silicon carbide, silicon nitride, diesel particle filter, rod-like crystal, filtration efficiency





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**Antalya / Turkey April 11-13, 2018**



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## Parallel Sessions

Hall	Chair	Paper Title	Authors	Speaker	Co-Author
HALL 1	Dr. Yılmaz SEÇGİN	66 - The Effect of Laying Direction on the Mechanical and Comfort Properties of Cross and Cross/Parallel Laid Nonwoven Fabrics	Pelin Gürkan Ünal	Pelin Gürkan Ünal	Pelin Gürkan Ünal
		142 - Gölçük Atık Yönetiminin Planlanmasında Çocuk ve Kadının Hizmet Birliği Modelindeki Rolü	Arzu Morkoyunlu Yüce, Gönül Konakay, Ayfer Özmen, Şebnem Erkebay and Serkan Aksöz	Arzu Morkoyunlu Yüce	Arzu Morkoyunlu Yüce
		144 - SİPAHİLER VE SEVİNDİKLİ GÖLETİ ALGLERİ (KOCAELİ/TÜRKİYE)	Arzu Morkoyunlu Yüce and Ece Gezgin Demir	Arzu Morkoyunlu Yüce	Arzu Morkoyunlu Yüce
		123 - Depremleri Önceden Belirlemede Fayların Sismogenik Özelliklerinin Jeofizik ve Jeodezik Görüntüleme Yöntemi ile Belirlenmesi: Kuzey Anadolu Fay Zonu Örneği	Şakir Şahin and Guoyan Jiang	Şakir Şahin	Şakir Şahin
		88 - Numerical and Analytical Analysis of Hertz Contact Pressure in ASTM G99 Wear Test	Esad Kaya, Koray Kılıçay and Mustafa Ulutan	Esad Kaya	Koray Kılıçay
		241 - The Effect of Entrepreneurship Education on Entrepreneurship Tendency: The Sample of Gaziosmanpaşa University Turhal Applied Technology and Management School Department of Banking and Insurance	Yılmaz Seçgin, İsmail Tuna and Lütfullah Dağkurs	Yılmaz Seçgin	Yılmaz Seçgin
HALL 2	Dr. Şirin Silahlı Böge	160 - The Effect of Exam Anxiety on Blood Pressure and Heart Rate in Paramedic Students	Fatma Topal, Dilek Gümüş and Nedime Köşgeroğlu	Fatma Topal	Fatma Topal
		298 - The Effect of Academic Stress on Oxygen Saturation in Paramedic Students	Dilek Gümüş, Fatma Topal and Nedime Köşgeroğlu	Dilek Gümüş	Dilek Gümüş
		161 - Vocational Schools Dialysis Programs Current Situation, Problems and Solution Suggestions	Fadime Gökteş	Fadime Gökteş	Fadime Gökteş
		95 - Status and Job Opportunities in the Landscape and Ornamental Plants Programs of Vocational Schools of at the Universities in Turkey	Şirin Silahlı Böge	Şirin Silahlı Böge	Şirin Silahlı Böge
		307 - Aksaray İlinde İnşaat Sektörünün Sürdürülebilirliği Açısından Toplu Konutlarda Peyzaj Tasarımının Önemi	Şirin Silahlı Böge	Şirin Silahlı Böge	Şirin Silahlı Böge
		117 - A Stochastic Binary Opinion Model	Serap Tay Stamoulas and Muruhan Rathinam	Serap Tay Stamoulas	Serap Tay Stamoulas
		261 - Numerical Modeling of Infilled Reinforced Concrete Frame and Its Verification	Vesile Hatun Akansel and Ahmet Yakut	Vesile Hatun Akansel	Vesile Hatun Akansel
HALL 3	Dr. Nurcan ÇALIŞ AÇIKBAŞ	10 - Investigation of Mechanical Properties of The Milled Glass Fiber Powder Reinforced Polypropylene Composite	Mehmet Ekici	Mehmet Ekici	Mehmet Ekici
		81 - Investigation of Usage of Waste Fine Fire Clay Ceramic Sanitaryware Products in Polymer Matrix Composite Production	Gökhan Açıkbaş and Hasan Göçmez	Gökhan Açıkbaş	Gökhan Açıkbaş
		82 - The Influence of Wall Tile and Glass Fiber Waste Particle Sizes on the Wear Behavior of Hybrid Epoxy Matrix Composites	Nurcan Çalış Açıkbaş, Gökhan Açıkbaş, Bilge Yaman and Selçuk Özcan	Nurcan Çalış Açıkbaş	Nurcan Çalış Açıkbaş
		98 - Production of a Polymer Matrix Composite Material with Antibacterial Property	Selçuk Özcan and Gökhan Açıkbaş	Selçuk Özcan	Selçuk Özcan
		91 - Real World NOx Emissions of a City Bus under Urban Driving Conditions	Şeref Soylu	Şeref Soylu	Şeref Soylu
		94 - Effect of Temperature on Sensors Used in Structural Health Monitoring: A Literature Review	Mesut Tekkalmaz and Gökhan Haydarlar	Gökhan Haydarlar	Gökhan Haydarlar
HALL 4	Dr. İsmail Tuna	23 - Language Learning Strategy Preferences of 1st Year Students of Uzunköprü Vocational College	Aybüke Arık	Aybüke Arık	Aybüke Arık
		189 - Kablosuz Ağlarda Şifreleme Algoritmalarının Performans Analizi	Selçuk Ökdem and Mehmet Kirtay	Mehmet Kirtay	Mehmet Kirtay
		114 - RESEARCHING OF THE SECTOR APPLICATIONS IN THE CONSTRUCTION DEPARTMENT IN THE VOCATIONAL HIGH SCHOOL AND DETERMINATION OF DEFICIENCIES AND PRESENTATION OF SOLUTION PROPOSALS (UNIVERSITY OF AKSARAY EXAMPLE)	Yasin Gökteş and Bengü Çorakçı	Yasin Gökteş	Yasin Gökteş
		217 - THE FUNCTION OF METALLIZATION, PRIVATIZATION, COMMERCIALIZATION AND STANDARDS IN EDUCATION AS A RESULT OF GOVERNMENT'S SELF-LEVELING FROM THE FINANCE OF EDUCATION	Anıl Sağlam	Anıl Sağlam	Anıl Sağlam
		227 - DETERMINATION OF TEACHERS' DEMAND BY USING AGE PYRAMIDS BETWEEN THE YEARS 2015-2020	Anıl Sağlam	Anıl Sağlam	Anıl Sağlam
		243 - ÖĞRENCİLERİN DUYGUSAL ZEKÂ DÜZEYLERİ ÜZERİNE BİR ARAŞTIRMA	Serkan Tan and Mutlu Arman	Mutlu Arman	Serkan Tan
		242 - ÖRGÜTSEL BAĞLILIK İLE MUTLULUK DÜZEYLERİ ARASINDAKİ İLİŞKİ ÜZERİNE BİR ARAŞTIRMA	Mutlu Arman and Serkan Tan	Serkan Tan	Mutlu Arman

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## Parallel Sessions

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VIRTUAL PRESENTATION (17:15 - 18:30)	HALL 1	Günel YILMAZ	113 - Error Control of Cylindrical Objects with Image Processing	Kürşad Uçar and Hasan Erdinç Koçer	Kürşad Uçar	Kürşad Uçar
			136 - Yenilikçi Soğutma Teknolojileri: Isı Boruları	Burak Markal and Kübra Aksoy	Kübra Aksoy	Burak Markal
			304 - SUPERVISED IMAGE CLASSIFICATION METHODS FOR EXTRACTING MAN-MADE OBJECTS FROM HIGH RESOLUTION REMOTELY SENSED IMAGERY	Serhat Şenses	Serhat Şenses	Serhat Şenses
			178 - Fuzzy Control Based Physiological Home Automation	Fatih Tahtasakal, Ö. Fatih Keçecioglu, Ahmet Gani and Mustafa Şekkeli	Fatih Tahtasakal	Fatih Tahtasakal
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			170 - Phthalocyanine Based Pigments and Application Fields in World	Yusuf Yılmaz	Yusuf Yılmaz	Yusuf Yılmaz
			297 - Fuzzy Priority Rules for Fuzzy Scheduling Problems	Murat Gülbay	Murat Gülbay	Murat Gülbay
			295 - An Intelligent Shelf System Design and Ergonomic Analysis by using CATIA Software	Erdal Öztürk and Murat Gülbay	Erdal Öztürk	Murat Gülbay
			276 - KENTSEL DÖNÜŞÜM PROJELERİNDE AKTÖRLERİN İŞBİRLİĞİNİN ROLÜ; FİKİRTEPE, İSTANBUL, TÜRKİYE	Tuba Sarı Haksever and Candan Çınar Çıtak	Tuba Sarı Haksever	Tuba Sarı Haksever
			192 - İlk ve Acil Yardım Programlarında Travma Eğitimi	Fatma Gök	Fatma Gök	Fatma Gök
			35 - EV TEKSTİLİ ÜRETİMİNDE İKİ EL HAREKET ANALİZİ UYGULAMASI	Can Ünal	Can Ünal	Can Ünal
	HALL 3	Dr. Ali Durmuş	102 - Investigation of Antibacterial Activity and Physico-Mechanical Properties of Boron and Porcelain Incorporated Polymer Matrix Composite Applications	Gökhan Açıkbaş	Gökhan Açıkbaş	Gökhan Açıkbaş
			104 - Properties of porous silicon nitride bonded-silicon carbide ceramics for diesel particle filter	N. Ç. Açıkbaş, Ş. Soylu, Ş. Kircali, Gökhan Açıkbaş and Selçuk Özcan	Nurcan Çalış Açıkbaş	Nurcan Çalış Açıkbaş
			138 - Laboratory Scale Evaluation of Organized Industrial Zone (OIZ) Wastewater Reuse by MBR-NF/RO: Kayseri OIZ	İbrahim Uyanık, Oktay Özkan and Türker Türken	İbrahim Uyanık	İbrahim Uyanık
			269 - Effect of Cooling Rate Applied to Aluminum Composites on Hardness and Wear Resistance	Metin Onal and Mehmet Gavgali	Metin Önal	Metin Önal
			302 - Farklı Cerrahiler ve Tıbbi Araştırmalarda CT ve MR Datalarının Katmanlı İmalat İle Katı Modele Dönüştürülmesinin Faydaları	Mehmet Mahir Sofu	Mehmet Mahir Sofu	Mehmet Mahir Sofu
			300 - Pattern Nulling of Linear Antenna Arrays Using Salp Swarm Algorithm	Kerim Güney, Erhan Kurt and Ali Durmuş	Erhan Kurt	Erhan Kurt
	HALL 4	Dr. Turgut ÖZSEVEN	272 - Finite Element Analysis of Stress in Superconducting Coil Stack Exposed to External AC Magnetic Field	Şükrü Yıldız, Gazi Çağlar Kaçan and Fedai İnanır	Şükrü Yıldız	Şükrü Yıldız
			274 - FEM Analyses of AC Loss of an HTS Coil by the Changing Frequencies and Directions of the Applied Field	Fedai İnanır, Şükrü Yıldız, Bekir Bak and Ozan Keysan	Fedai İnanır	Fedai İnanır
301 - 3B Süperiletken Tellerin Benzeşimi için Yeni ve Verimli Bir Sayısal Model			Fedai İnanır, Şükrü Yıldız and Fedor Gömöry	Fedai İnanır	Fedai İnanır	
273 - The Electrochemical Properties of Melt-Spun Al75-XSi25TiX Anode Materials for Lithium-Ion Batteries Powdered by Cryomilling			Şükrü Yıldız, Fikret Yılmaz, Fedai İnanır and Orhan Uzun	Şükrü Yıldız	Şükrü Yıldız	
HALL 5	Serkan ŞENKAL	139 - A New Capacitive Rotary Encoder Based on Double Sideband Modulation and Demodulation	Ali Tahir Karaşahin and Mehmet Karalı	Ali Tahir Karaşahin	Ali Tahir Karaşahin	
		145 - Sustainability in Apparel Production Supply Chain	Gülşah Pamuk and Alime Aslı İlleez	Alime Aslı İlleez	Gülşah Pamuk	
		182 - Günümüzde Makineleşmenin İş Kazalarına Etkisi	Damla Uşar, Mine Uras, Sezgin Ersoy and Yahya Bozkurt	Yahya Bozkurt	Yahya Bozkurt	
		271 - Özdeğer Tabanlı Algılama Yöntemlerinde Eşik Değerinin Algılama Performansına Etkisi	Cebrail Çiflikli and Fatih Yavuz Ilgin	Fatih Yavuz Ilgin	Fatih Yavuz Ilgin	
		266 - Comparison of Text Classification Performances in Balanced and Imbalanced Datasets	Mehmet Fatih Karaca and Şafak Bayır	Mehmet Fatih Karaca	Mehmet Fatih Karaca	
		267 - Morphological Analyses of Turkish Sign Language and Turkish Course Contents	Mehmet Fatih Karaca and Şafak Bayır	Mehmet Fatih Karaca	Mehmet Fatih Karaca	
		268 - Review on Turkish Sign Language Studies	Mehmet Fatih Karaca and Şafak Bayır	Mehmet Fatih Karaca	Mehmet Fatih Karaca	
		221 - A novel cascade 11 Level Inverter Design	Mehmet Ali Aygül, Nurettin Abut and Umut Özkaya	Umut Özkaya	Mehmet Ali Aygül	

April 12, 2018 Thursday 17:15-18:30



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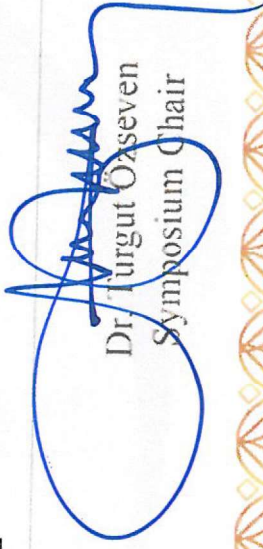
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Paper ID / Title : 104 - Properties of porous silicon nitride bonded-silicon carbide ceramics for  
diesel particle filter

Paper Authors : Nurcan Çalış Açıkbaş, Şeref Soyulu, Şahabettin Kırçali, Gökhan Açıkbaş and  
Selçuk Özcan

Presentation Type : ORAL

  
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Özet Gönderimi İçin Son Tarih: 25 Mart 2018



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