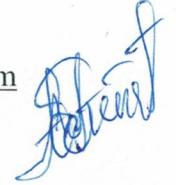
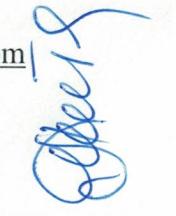


**2nd SEMINAR ON INVESTIGATIONS AND MODELING OF
NANOCOMPOSITES STRUCTURES**

		Title	Authors	Affil	e-mail	Signature
1	PL-01	SH wave scattering by a nanocrack in a graded piezoelectric half-plane with nanorelief	Tsviatko Rangelov ^{1,*} , Petia Dineva ²	1Institute of Mathematics and Informatics, Bulgarian Academy of Sciences; 2Institute of Mechanics, Bulgarian Academy of Sciences	rangelov@math.bas.bg	
2	PL-02	Closed-form analysis of debonding initiation in multi-layered systems	Debora Linn, Wilfried Becker *	TU Darmstadt, Institute of Applied Dynamics, Darmstadt, Germany	becker@fsm.tu-darmstadt.de	
3	KL-01	Optimal safety intervals for geometry and loads in polymer nanocomposites by multi-parameter optimization	Tatyana Petrova ^{1,*} , Elisaveta Kirilova ¹ , Alexander Moravski ² , Rayka Vladova ¹ , Apostol Apostolov ¹	Institute of Chemical Engineering, Bulgarian Academy of Sciences, Bulgaria; 2Faculty of Mathematics and Informatics, Sofia University "St. Kliment Ohridski"	tancho66@yahoo.com	
4	KL-02	Producing and characterization of PtCoP alloy coatings on powdered carbon support	Jenia Georgieva ^{1,*} , Angeliki Banti ² , Sotiris Sotiropoulos ² , Rositsa Mechkova ¹	1Rostislav Kaischew Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria; 2Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki	jenia@ipc.bas.bg	

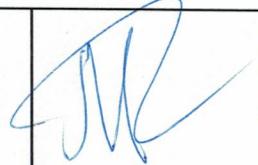
5	KL-03	Low temperature synthesis of corundum ceramics and study of the effect of specially introduced nanoadditives	Adriana Georgieva, Margarita Georgieva*, Irena Markovska	Prof. Dr. Assen Zlatarov University Burgas, Faculty of Technical Sciences, Department of Chemical Technology, Burgas, Bulgaria	<u>margaritageorgieva727@gmail.com</u> 
6	KL-04	Multi-parameter optimization of layered Ti3C2 Mxene/PMMA nanocomposite under mechanical loading	Alexander Moravski1,*, Tatyana Petrova2, Elisaveta Kirilova2, Rayka Vladova2, Apostol Apostolov2	1Faculty of mathematics and informatics, Sofia University "St. Kliment Ohridski", Sofia, Bulgaria; 2 Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>alexmoravski@protonmail.com</u> 
7	NE-01	Calcium carbonate nanoparticles as a filler for gelatin-based biofilms: preparation, characterization and properties	Dimitrina Kiryakova1,*, Antoniya Ilieva2, Ganka Kolchakova1	1Department of Materials Science, Assen Zlatarov University, Burgas, Bulgaria; 2Department of Chemical Technologies, Assen Zlatarov University, Burgas, Bulgaria	<u>dskiryakova@abv.bg</u> 
8	NE-02	Synthesis and properties of Cu - doped fine dispersed ceramic pigments	Fila Yovkova*, Mariela Minova, Adriana Georgieva, Irena Markovska	Prof. Dr. Assen Zlatarov University Burgas, Faculty of Technical Sciences, Department of Chemical Technology, Burgas, Bulgaria	<u>fila_03@abv.bg</u> 

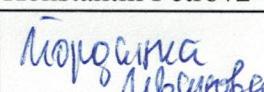
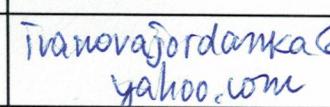
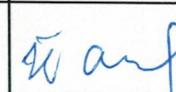
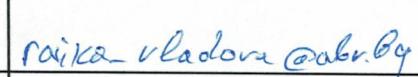
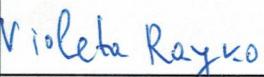
9	NE-03	Synthesis and properties of Ni-doped fine dispersed ceramic pigments	Mariela Minova*, Fila Yovkova, Irena Markovska, Adriana Georgieva	Prof. Dr. Assen Zlatarov University Burgas, Faculty of Technical Sciences, Department of Chemical Technology, Burgas, Bulgaria	<u>minova_m@abv.bg</u>	
10	NE-04	Electrically-induced bending of electrically-poled flexible PVDF films	Todor Vlakhov*, Yordan Marinov, Angel Dimitrov, Georgi Hadjichristov, Georgi Nadiakov	Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>todor_vlakhov@issp.bas.bg</u>	
11	NE-05	Preparation of epoxy/ organoclay composites. Structural characterization of composites and study of their mechanical properties	Verislav Angelov *, Rumen Krastev, Todor Batakliev	Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>v.angelov@imbm.bas.bg</u>	
12	NE-06	Synthesis, characterization and application aspects of barium titanate-based ceramic samples with graphene nanostructures introduced	Adriana Georgieva*, Fila Yovkova, Krasi Panayotova	Prof. Dr. Assen Zlatarov University Burgas, Faculty of Technical Sciences, Department of Chemical Technology, Burgas, Bulgaria	<u>adriana_georgieva79@yahoo.com</u>	

13	NE-07	Adhesive bond between dentin and nanocomposite material crowntec	Mariana Dimova-Gabrovska ^{1,*} , Yoana Brusarska ¹ , Elisaveta Kirilova ² , Spartak Yanakiev ³ , Dobrinka Damyanova ⁴ , Stefan Rangelov ¹	1 Department of Prosthetic Dental Medicine, Faculty of Dental Medicine, Medical University – Sofia, Bulgaria; 2 Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria; 3 Medical College “Yordanka Filaretova” – Sofia, Medical University – Sofia, Bulgaria; 4 Department of Pediatric Dental Medicine, Faculty of Dental Medicine, Medical University “Prof. Dr. Paraskev Stoyanov” – Varna, Bulgaria	<u>marianadimova@abv.bg</u> 

14	NE-08	Wear resistance of nanocomposite structures	Mariana Dimova-Gabrovska ¹ , Yoana Brusarska ¹ , Elisaveta Kirilova ² , Dobromira Shopova ³ , Dobrinka Damyanova ⁴ , Stefan Rangelov ^{1,*}	1 Department of Prosthetic Dental Medicine, Faculty of Dental Medicine, Medical University – Sofia, Bulgaria; 2 Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria; 3 Department of Prosthetic Dental Medicine, Faculty of Dental Medicine, Medical University -Plovdiv, Bulgaria; 4 Department of Pediatric Dental Medicine, Faculty of Dental Medicine, Medical University “Prof. Dr. Paraskev Stoyanov” – Varna, Bulgaria	
15	NE-09	Optimal safe loading and geometry of layered nanocomposites, used for preliminary fixed prosthodontic appliances	Mariana Dimova-Gabrovska ¹ , Radina Moskova ^{2,*} , Stefan Rangelov ¹	1 Department of Prosthetic Dental Medicine, Faculty of Dental Medicine, Medical University – Sofia, Bulgaria; 2 Faculty of Dental Medicine, Medical University - Sofia, Bulgaria	

16	NE-10	Structural properties of ion-conducting polymer-nematic liquid-crystalline nanocomposites with single-walled carbon nanotube additives	Todor Vlakhov*, Georgi Hadjichristov, Yordan Marinov, Angel Dimitrov	Georgi Nadjakov Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>todor1987@abv.bg</u>	
17	NM-01	Analytical and numerical modelling of the behaviour of a concrete nanocomposite with a central crack under monotonically increasing temperature	Gergana Nikolova*	Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>gery@imbm.bas.bg</u>	
18	NM-02	The influence of the crack geometry - length and orientation angle, temperature and nano-SiO ₂ content on the behaviour of a concrete nanocomposites with a central crack	Gergana Nikolova*	Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>gery@imbm.bas.bg</u>	

19	NO-01	Aplication of Me-pan nanocomposite membrane in two-stage ultrafiltration of industrial wastewater	Milena Miteva ¹ , Violeta Raykova ^{2,*}	1 Burgas State University “Prof.Dr. Assen Zlatarov”, Burgas, Bulgaria; 2 Technical University of Sofia - Faculty and College of Sliven, Sliven, Bulgaria	rmkpetrovi@abv.bg	
20	NO-02	Analysis of parameters influencing delamination in thermo-mechanically loaded graphene/polymer layered nanocomposites	Apostol Apostолов*, Татяна Петрова, Елизавета Кирилова, Райка Владова	Bulgarian Academy of Sciences, Institute of Chemical Engineering, Sofia, Bulgaria	a_apostolov@iche.bas.bg	
21	NS-01	Degradation of synthetic dyes by the use of nanosized composite catalysts and microorganisms	Nadezhda Shukova ¹ , Nadia Armenova ^{1,*} , Dzhamal Uzun ² , Adriana Gigova ² , Ognian Dimitrov ² , Mariela Dimtrova ² , Ljutzkan Ljutzkanov ¹ , Elena Razkazova-Velkova ¹	1 Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria; 2 Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, Sofia, Bulgaria	nadq.armenova@gmail.com	

22	NS-02	Nanosized ZrO ₂ as a composite catalyst for oxidation processes	Nadezhda Shukova ¹ , Dzhamal Uzun ² , Adriana Gigova ² , Ognian Dimitrov ² , Mariela Dimtrova ² , Ljutzkan Ljutzkanov ¹ , Elena Razkazova-Velkova ^{1,*} , Konstantin Petrov ²	1 Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria; 2 Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, Sofia, Bulgaria	<u>nastemi1@abv.bg</u>	
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