

Автобиография

Собствено име(на) Фамилия(и)	АЛЕКСАНДЪР РУМЕНОВ ЛУКАНОВ																																																		
Адрес(служебен)	Минно-геоложки университет "Св. Иван Рилски", София 1700, Студентски град, Катедра Инженерна геоекология																																																		
Мобилен (незадължително)	+359/89 568 9461 +81/80 3349 3964 (Япония)																																																		
E-mail	alex_loukanov@yahoo.com loukanov@mail.saitama-u.ac.jp																																																		
Дата на раждане, Място	02 април 1981 г., гр. Берковица																																																		
Длъжност(и) (в момента)																																																			
Дати	Ноември 2012 →																																																		
Заемана длъжност или позиция	Доцент																																																		
Име и адрес на работодателя	Минно-геоложки университет "Св. Иван Рилски", Студентски град, София 1700.																																																		
Дати	Октомври 2014 →																																																		
Заемана длъжност или позиция	Доцент																																																		
Име и адрес на работодателя	Университета Сайтама, Шимо-окубо 255, Сакура-ку, Сайтама 338-8570, Япония																																																		
Образование и обучение																																																			
Дати	07.04.2017																																																		
Придобитата квалификация	ДОКТОР НА НАУКИТЕ (№ ДН-02 издадена на 21.04.2017 г.)																																																		
Образователна институция	Минно-геоложки университет "Св. Иван Рилски", БЪЛГАРИЯ																																																		
Дати	24.03.2009																																																		
Придобитата квалификация	ДОКТОР (диплома № 082660, приравнена с шифър 01.06.17, удостоверение № 2007-ВАК от 22.03.2010 г.)																																																		
Образователна институция	Университета Сокендай, Хаяма 240-0193, ЯПОНИЯ																																																		
Чужд (и) език (езици)	Руски, Английски																																																		
Самооценка																																																			
Европейско ниво (*)																																																			
Английски																																																			
Японски																																																			
Руски																																																			
	<table border="1"> <thead> <tr> <th colspan="4">Разбиране</th> <th colspan="4">Говорене</th> <th colspan="2">Писане</th> </tr> <tr> <th colspan="2">Слушане</th> <th colspan="2">Четене</th> <th colspan="2">Участие в разговор</th> <th colspan="2">Самостоятелно устно изложение</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>Свободно ниво на владееене</td> <td>C2</td> <td>Свободно ниво на владееене</td> <td>C2</td> <td>Свободно ниво на владееене</td> <td>C2</td> <td>Свободно ниво на владееене</td> <td>C2</td> <td>Свободно ниво на владееене</td> </tr> <tr> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>A1</td> <td>Самостоятелно ниво на владееене</td> </tr> <tr> <td>C1</td> <td>Свободно ниво на владееене</td> <td>C1</td> <td>Свободно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> <td>B1</td> <td>Самостоятелно ниво на владееене</td> </tr> </tbody> </table>	Разбиране				Говорене				Писане		Слушане		Четене		Участие в разговор		Самостоятелно устно изложение				C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	A1	Самостоятелно ниво на владееене	C1	Свободно ниво на владееене	C1	Свободно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене
Разбиране				Говорене				Писане																																											
Слушане		Четене		Участие в разговор		Самостоятелно устно изложение																																													
C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене	C2	Свободно ниво на владееене																																										
B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	A1	Самостоятелно ниво на владееене																																										
C1	Свободно ниво на владееене	C1	Свободно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене	B1	Самостоятелно ниво на владееене																																										
	(*) Единни европейски критерии за познания по езици																																																		
Професионална информация и приложения																																																			
Области на професионални и научни интереси (ключови думи)	Екологично-съвместими нанобиотехнологии за опазване на околната среда Дизайн и получаване на наномашини																																																		
Рецензент	Advanced Material Letters																																																		
Членство в професионални и браншови организации	Вице-президент на Европейската асоциация нанонауки и нанотехнологии Член на съюза на учените в България и Американското общество на химиците																																																		

Публикации	Приложение 1
Проекти	Приложение 2
Участие в научни сесии и конгреси (за последните 5 години)	International conference on functional nanomaterials and nanodevices, 2017, Budapest. 2 nd Global nanotechnology congress and expo, 2016, Las Vegas, USA. Pacifichem 2015, Honolulu, Hawaii, USA.
Специализации в чужбина (за последните 5 години)	2017 г. Университета Арканзас, Съединени Американски Щати. 2016 г. Унгарската академия на науките, Будапеща, Унгария.
Други професионални компетенции	Лекционни курсове за магистри в МГУ “Св. Иван Рилски” – България: Химия на околната среда, Биосензори и биоиндикатори, Екотоксикология. Лекционни курсове за бакалаври в Университета Сайтама – Япония: Основи на нанобиотехнологията Над 150 цитати регистрирани в Scopus Citation Tracker, $h_{index} = 8$ Координатор на програма за академичен обмен между МГУ “Св. Иван Рилски” – България и Университета Сайтама – Япония. Научен ръководител на двама редовно зачислени докторанти

ПУБЛИКАЦИИ
за периода 2004-2017

I. Research articles traceable by web of Science or Scopus

1. **Alexandre R. Loukanov**, Ceco D. Dushkin, Karolina I. Papazova, Andrey V. Kirov, Miroslav V. Abrashev, Eiki Adachi, Photoluminescence depending on the ZnS shell thickness of CdS/ZnS core-shell semiconductor nanoparticles, *Colloids and Surfaces A: Physicochem. Eng. Aspects* **245** (2004) 9-14. ISSN: 0927-7757, Impact Factor: 2.130
2. **Alexandre Loukanov**, Naomi Kamasawa, Radostin Danev, Ryuichi Shigemoto, Kuniaki Nagayama, Immunolocalization of multiple membrane proteins on a carbon replica with STEM and EDX, *Ultramicroscopy* **110** (2010) 366-374. ISSN: 0304-3991, Impact Factor: 2.061
3. Saim Emin, **Alexandre Loukanov**, Masanobu Wakasa, Seiichiro Nakabayashi, Yasuko Kaneko, Photostability of water-dispersible CdTe quantum dots: capping ligands and oxygen, *Chem. Lett.* **39** (2010) 654-656. ISSN: 0366-7022, Impact Factor: 1.460
4. **Alexandre Loukanov**, Saim Emin, Surya P. Singh, Anatoli Angelov, Kuniaki Nagayama, Carboxy-eosin as a marker for correlative light-electron microscopic imaging of newly synthesized in vivo DNA, *Adv. Mat. Lett.* **1** (2010) 114-117. ISSN: 0976-3961. Impact Factor: 1.93
5. Surya P. Singh, Saim Emin, **Alexandre Loukanov**, Synthesis of highly soluble phthalocyanine from a new phthalonitrile under mild conditions, *Adv. Mat. Lett.* **1** (2010) 148-150. ISSN: 0976-3961. Impact Factor: 1.93
6. I. Ivanova, **A. Loukanov**, O. Angelov, R. Popova, H. Nichev, V. Mikli, Dariana Dimova-Malinovska, C. Dushkin, Effect of ZnO nanostructured thin films on *Pseudomonas Putida* cell division, Nanotechnological Basis for Advanced Sensors, *NATO Science for Peace and Security Series B: Physics and Biophysics* (2011) Chapter 51, 487-491, ISSN: 1874-6535
7. **Alexandre Loukanov** and Hristo Gagov, High-resolution subunit detection of glutamate receptor by ultrasmall gold nanoparticles, *Microscopy Research and Technique* (2012) 75(9): 1159-1164. ISSN: 1097-0029, Impact Factor: 1.85
8. Irina Stambolova, Vladimir Blaskov, Maria Shipochka, Sasho Vassilev, Vilma Petkova, **Alexandre Loukanov**, Simple way for preparation of ZnO films by surfactant mediated spray pyrolysis, *Materials Science and Engineering: B* (2012), 1029-1037. ISSN: 0921-5107, Impact Factor: 1.518
9. Saim Emin, **Alexandre Loukanov**, Surya Singh, Seiichiro Nakabayashi, Liyuan Han, Synthesis, characterization and self-assembly of colloidal quantum dots, *Intelligent Nanomaterials, Scrivener Publishing LLC* (2012) 3-37, ISBN: 978-0-470-93879-9
10. Irina Stambolova, Maria Shipochka, Vladimir Blaskov, **Alexandre Loukanov**, Sasho Vassilev, Sprayed nanostructured TiO₂ films for efficient photocatalytic degradation of textile azo dye, *Journal of Photochemistry and Photobiology B: Biology* (2012), 19-26. ISSN: 1011-1344, Impact Factor: 2.814
11. I. Stambolova, V. Blaskov, S. Vassilev, M. Shipochka, **A. Loukanov**, Effect of substrate type, dopant and thermal treatment on physicochemical properties of TiO₂-SnO₂ sol gel films, *Bull. Mater. Sci.*, Vol. **35** No 4 (2012) 645-649. ISSN: 0973-7669, Impact Factor: 0.880
12. **Alexandre Loukanov**, Saim Emin, Quantum dots for detection, identification and tracking of single biomolecules in tissue and cells, *Intelligent Nanomaterials, Scrivener Publishing LLC* (2012) 649-677, ISBN: 978-0-470-93879-9
13. V Blaskov, M Shipochka, I Stambolova, S Vassilev, A Eliyas, P Stefanov and **A Loukanov**, Influence of titanium precursor on the photocatalytic properties of TiO₂ sprayed films under visible light, *Journal of Physics: Conference Series, IOP science*, V **398** (2012), 1-6. ISSN 1742-6588, Impact Factor: 0.718
14. Anatoliy Angelov, Svetlana Bratkova, **Alexandre Loukanov**, Microbial fuel cell based on electroactive sulfate-reducing biofilm, *Energy Conversion and Management* **67**, (2013) 283-286, ISSN: 0196-8904, Impact factor: 2.640
15. Albena D. Bachvarova-Nedelcheva, Reni S. Iordanova, Angelina M. Stoyanova, Radka D. Gegova, Yanko B. Dimitriev, **Alexandre R. Loukanov**, Photocatalytic properties of ZnO/TiO₂ powders obtained via combustion gel method, *Central European Journal of Chemistry* **11** (2013) 364-370, ISSN: 1644-3624, Impact Factor: 1.073
16. R. Gegova, Y. Dimitriev, A. Bachvarova-Nedelcheva, R. Iordanova, **A. Loukanov**, Tz. Iliev, Combustion gel method for synthesis of nanosized ZnO/TiO₂ powders, *Journal of Chemical Technology and Metallurgy* **48** (2013) 147-153, ISSN: 1311-7629, Impact Factor: 0.061

17. **Alexandre Loukanov**, Chavdar Filipov, Violeta Valcheva, Marta Lecheva, Saim Emin, Growth stimulation of *Bacillus cereus* and *Pseudomonas putida* using nanostructured ZnO thin film as transducer element, *J Nanopart Res* **17** (2015) 196. ISSN: 1572-896X, Impact Factor: 2.278
18. **Alexandre Loukanov**, Chavdar Filipov, Marta Lecheva, Saim Emin, Immobilization and stretching of 5'-pyrene-terminated DNA on carbon film deposited on electron microscope grid, *Microscopy Research and Technique* **78** (2015) 994-1000. ISSN: 1097-0029, Impact Factor: 1.593
19. Svetla Nikolova, Vasil Yablanski, Evgeni Vlaev, Luben Stokov, Alexey Savov, Ivo Kremenski, **Alexandre Loukanov**, Association between IL-6 and MMP-3 common genetic polymorphisms and idiopathic scoliosis in Bulgarian patients: a case-control study, *Spine* **41** (9), (2016) 785-791. ISSN: 1528-1159, Impact Factor: 2.300
20. **Alexandre Loukanov**, Chavdar Filipov, Polina Mladenova, Svetlin Toshev, Saim Emin, Electron microscopic visualization of complementary labeled DNA with platinum-containing guanine derivative, *Microscopy Research and Technique* **79** (2016) 280-284. ISSN: 1097-0029, Impact Factor: 1.593
21. **Alexandre Loukanov**, Vesselin Zhelyazkov, Yukako Hihara, Seiichiro Nakabayashi, Intracellular imaging of Qdots-labeled DNA in cyanobacteria, *Microscopy Research and Technique* **79** (2016) 447-452. ISSN: 1097-0029, Impact Factor: 1.593
22. **Alexandre Loukanov**, Ryota Sekiya, Midori Yoshikawa, Yuji Moriyasu, Seiichiro Nakabayashi, Photosensitizer-conjugated ultrasmall nanodots as multifunctional fluorescent probes for bioimaging, *Journal of Physical Chemistry C* **120** (29), (2016) 15867-15874. ISSN: 1932-7455, Impact factor: 4.772
23. **Alexandre Loukanov**, Saim Emin, Biotinylated vanadium and chromium sulfide nanoparticles as probes for co-localization of membrane proteins, *Microscopy Research and Technique* **79** (2016) 799-805. ISSN: 1097-0029, Impact Factor: 1.593
24. **Alexandre Loukanov**, Ivan Nikolov, Svetlin Toshev, Polina Mladenova, Functional electron spectroscopic imaging of boron-labeled *Escherichia coli*, *Microscopy Research and Technique* (2017). ISSN: 1097-0029, Impact Factor: 1.593
25. **Alexandre Loukanov**, Hristo Gagov, Milena Mishonova, Seiichiro Nakabayashi, Nanomaterials for cancer medication: from individual nanoparticles toward nanomachines and nanorobots, *Acta Pharmac. Sinica B* (2017). ISSN: 2211-3835. In progress. Impact Factor: 3.166
26. **Alexandre Loukanov**, Hristo Gagov, Milena Mishonova, Seiichiro Nakabayashi, Biocompatible carbon nanodots for functional imaging and cancer therapy: progress and perspectives. *IJBCE* (2017).
27. Alexandre Loukanov, Hibiki Udono, Ryo Takakura, Seiichiro Nakabayashi, Extraction and sensing of uranium (VI) from acid mine drainage by super-paramagnetic iron oxide nanoparticles coated with carbon nanodots, *Applied Geochemistry* (2017). ISSN: 0883-2927, Impact Factor: 2.542

II. Research articles with peer reviews

1. **A. Loukanov**, C. Dushkin, K. Papazova, A. Kirov, E. Adachi, Effect of the shell thickness on the absorbance and emission spectra of CdS/ZnS core-shell nanoparticles, *Nanoscience & Nanotechnology* **4** (2004) 66-68. ISSN: 1313-8995
2. C. Dushkin, B. Bochev, T. Brankova, S. Emin, G. Ilieva, **A. Loukanov**, K. Papazova, I. Petrov, V. Ruychev, I. Stoychev, G. Yordanov, E. Adachi, Nanoparticle science and technology: toward the manufacturing of nanomaterials at the department of general and inorganic chemistry, *Annuaire de L'Universite de Sofia "St. Kliment Ohridski"* **97** (2004), 197-210. ISSN: 0584-0317
3. I. Ivanova, **A. Lukanov**, O. Angelov, R. Popova, H. Nichev, V. Mikli, D. Dimova-Malinovska, C. Dushkin, Effect of ZnO nanostructured thin films on the *Pseudomonas Putida* cells division, *Nanoscience & Nanotechnology* **10** (2010), 166-188. ISSN: 1313-8995
4. **Alexandre Loukanov**, Koji Nitta, Hideki Shigematsu, Robert Glaeser, Kuniaki Nagayama, Synthesis of Erythrosine-dUTP as biomarker for DNA visualization in living cells, *Scientific researches of the Union of Scientists in Bulgaria-Plovdiv* **13** (2011) 125-129. ISSN: 1311-9192
5. Anatoliy Angelov, **Alexandre Loukanov**, Svetlana Bratkova, Katerina Nikolova, Sotir Plochev, Estimation of rock filter for treatment of manganese in acid mine drainage waters, *Universitaria Simpro* (2010) 5-8. ISSN: 1842-4449
6. **Alexandre Loukanov**, Anatoli Angelov, Sotir Plochev, Svetlana Bratkova, Katerina Nikolova, Seiichiro Nakabayashi, Gold nanoparticles as colorimetric sensor for iron ions detection in acid mine waters, *Analele Universitatii "Constantin Brancisus" din Targu Jiu* **3** (2010), 275-284. ISSN: 1842-4856
7. **Alexandre Loukanov**, Anatoli Angelov, Sotir Plochev, Svetlana Bratkova, Katerina Nikolova, Seiichiro Nakabayashi, Frontiers of the heavy metals detection in acid mine water: synergy of the advanced Nano-Bio-Sensor technology, *Universitaria Simpro* (2010) 87-92. ISSN: 1842-4449
8. I. Ivanova, R. Popova, **A. Loukanov**, O. Angelov, L. Krusteva, K. Papazova, E. Naumovska, K. Markovska, C. Dushkin, Interaction between *Bacillus Cereus* and nanostructured thin films of zinc oxide as a transducer element for biosensing application, *Trakia Journal of Science* **8** (2010) 159-164. ISSN: 1313-3551

9. **Alexandre Loukanov**, Nikolay Petrov, Anatoli Angelov, Seiichiro Nakabayashi, Zero-valent iron nanoparticles for decolorization of azo dyes from textile wastewater, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **2** (2011), 257-265. ISSN: 1842-4856
10. A. Bojinova, C. Dushkin, M. Kostadinov, **A. Loukanov**, Synthesis, characterization and photocatalytic action of titania composite powders, *Proceedings: ecology problems in mineral raw-material branch* (2011) 302-306. ISBN: 978-954-92738-3-0
11. **Alexandre Loukanov**, Nikolay Petrov, Anatoli Angelov, Svetlana Bratkova, Seiichiro Nakabayashi, Iron nanoparticles for decontamination of heavy metals in mining wastewaters, , *Proceedings: ecology problems in mineral raw-material branch* (2011) 296-301. ISBN: 978-954-92738-3-0
12. V. Blaskov, I. Stambolova, M. Shipochka, S. Vassilev, N. Kaneva, **A. Loukanov**, Decolorization of reactive black 5 dye on TiO₂ hibrid films deposited by sol gel method, *University of Plovdiv "Paisii Hilendarski" Scientific Papers* (2011) 149-159.
13. I. Stambolova, V. blaskov, M. Shipochka, S. Vassilev, **A. Loukanov**, Photocatalytic activity of sprayed TiO₂ films deposited on different substrates, *University of Plovdiv "Paisii Hilendarski" Scientific Papers* (2011) 137-147.
14. Vladimir Blaskov, Krassimir Genov, Irina Stambolova, Katya Milenova, Vladimir Georgiev, Todor Batakliiev, **Alexandre Loukanov**, Photocatalytic stability of black dyes on TiO₂ and ZnO films: Bezaktiv Schwarz V-Gra vs Reactive Black 5, *Magazine textile and clothing* **8** (2011) 214-218.
15. **Alexandre Loukanov**, Electron microscopic observation of selectively labeled DNA – toward EM DNA sequencing, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **4** (2011), 143-151. ISSN: 1842-4856
16. **Alexandre Loukanov**, DNA staining with metal nanoparticles by reductive amination, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **4** (2011), 152-160. ISSN: 1842-4856
17. Anatoliy Angelov, Evgeni Kraichev, Svetlana Bratkova, **Alexandre Loukanov**, Influence of the rock filter filling on the water flow hydrodynamic at treatment of mine water polluted with manganese, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **3** (2011), 279-287. ISSN: 1842-4856
18. K. Genov, V. Blaskov, M. Shipochka, I. Boevski, **A. Loukanov**, I. Stambolova, C. Dushkin, Spray pyrolysis vs ion-exchange methods: decomposition of ozone over Cu coated heu-type zeolite in ambient conditions, *Annuaire de L'Universite de Sofia "St. Kliment Ohridski"* **102** (2011), 285-292. ISSN: 0584-0317
19. Svetlana Bratkova, Anatoliy Angelov, Katerina Nikolova, **Alexandre Loukanov**, Treatment of waters polluted with heavy metals with biogenic sulphide, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **3** (2011), 288-298. ISSN: 1842-4856
20. Anatoliy Angelov, **Alexandre Loukanov**, Svetlana Bratkova and Evgeni Kraichev, Factors affecting of performance of microbial fuel cell for treatment of sulphate pollutants, *Universitaria Simpro* (2012) I. III. 1. ISSN: 1842-4449
21. Svetlana Bratkova, Anatoliy Angelov, **Alexandre Loukanov**, Katerina Nikolova, Sotir Plochev and Rosen Ivanov, Biotechnological removal of heavy metals from mining wastewaters by dissimilative sulphate reduction, *Revista Minelor - Mining Revue* (2012) III. 22-27. ISSN: 2247-8590
22. **Alexandre Loukanov**, Toxicity assessment of wastewater polluted with azo dyes after remediation with nanostructured oxides, *Nanoscience & Nanotechnology* **12** (2012), 192-194. ISSN: 1313-8995
23. **Alexandre Loukanov**, Krassimir Genov, Svetlana Bratkova, Anatoliy Angelov, Dipak Sarker, Aluminium silicates (clinoptilolite, perlite and bentonite) modified with silver as catalyst and antibacterial agent, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **3** (2012), 345-355. ISSN: 1842-4856
24. **Alexandre Loukanov**, Krassimir Genov, Svetlana Bratkova, Vlado Blaskov, Irina Stambolova, Maria Shipochka, Sasho Vassilev, Coating of natural glass – perlite with nanostructured copper thin film by spray pyrolysis, *Sustainable Development* **6** (2013) 73-77, ISSN: 1314-4138.
25. **Alexandre Loukanov**, Svetlana Bratkova, Velichka Mitova, Sotir Plochev, Anatoliy Angelov, Photocatalytic decolorization of azo dyes by nanostructured zinc oxide doped with lanthanum, *Sustainable Development* **6** (2013) 91-96, ISSN: 1314-4138.
26. **Alexandre Loukanov**, Svetlana Bratkova, Anatoliy Angelov, Immobilization of metal nanoparticles on graphite electrode for microbial fuel cell application, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **5** (2014), In press. ISSN: 1842-4856
27. **Alexandre Loukanov**, Svetlana Bratkova, Anatoliy Angelov, Immobilization of metal nanoparticles on graphite electrode for microbial fuel cell application, *Analele Universitatii "Constantin Brancisu" din Targu Jiu* **5** (2014), In press. ISSN: 1842-4856

III. Research articles without peer review or Proceeding article for conference

1. **Alexandre Loukanov**, Iliana Ivanova, Anatoli Angelov, Raina Popova, Svetlana Bratkova, Sotir Plochev, Ceco Dushkin, Nanostructured zinc oxide as a transducer for biosensing of sulphate-reducing bacteria, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **53** (2010) 173-175. ISSN: 1312-1820
2. Чавдар Филипов, Константина Десарио, Никола Декаро, Петър Грозданов, Дамян Иванов, Градимир Груйчев, Стоян Стоянов, Георги Ив. Георгиев, Зафер Сабит, **Александър Луканов**, Иво Сираков, Петър Желев, Канио Бунаволия, Проучване разпространението на кучешкия парвовирус тип 2 сред диви животни в България, *Традиции и съвременност във ветеринарната медицина, Лесотехнически университет* (2010) 380-387,
3. **Alexandre Loukanov**, Todor Rusnakov, Nikolay Petrov, Vladimir Blaskov, Irina Stambolova, Anatoli Angelov, Seiichiro Nakabayashi, Eco-friendly nanophotocatalysts for discoloring of azo dyes in industrial wastewater, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **54** (2011) 156-160. ISSN: 1312-1820

4. Svetlana Bratkova, Anatoliy Angelov, Katerina Nikolova, **Alexandre Loukanov**, Sotir Plochev, Removal of Cu, Fe, Ni and Zn ions from waters with microbial produced hydrogen sulfide, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **54** (2011) 175-180. ISSN: 1312-1820
5. **Alexandre Loukanov**, Photocatalytic decolorization of reactive black 5 and toxicological evaluation of the end products, *Topical Issues of Rational Use of Natural Resources* **2** (2012) 171-174. ISBN 978-5-94211-565-4
6. **Alexandre Loukanov**, Velichka Mitova, Vladimir Blaskov, Irina Stambolova, Anatoli Angelov, Seiichiro Nakabayashi, Aerobic photocatalytic oxidation of mixed azo dyes by sprayed nanostructured titanium dioxide, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **55** (2012) 175-178. ISSN: 1312-1820
7. **Alexandre Loukanov**, Svetlana Bratkova, Vladimir Blaskov, Irina Stambolova, Polina Mladenova, Sotir Plochev, Bacterial mineralization of azo dye treated by nanostructured titanium dioxide, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **55** (2012) 179-181. ISSN: 1312-1820
8. **Alexandre Loukanov**, Milena Georgieva, Anatoly Angelov, Toxicological assessment of photocatalytically destroyed mixed azo dyes by *Chlorella Vulgaris*, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **57** (2014) 140-142. ISSN: 1312-1820
9. Polina Mladenova, **Alexandre Loukanov**, Anatoly Angelov, Highly luminescent carbon nanoparticles as sensors for monitoring of heavy metals, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **59** (2016) 152-155. ISSN: 1312-1820
10. Ivan Nikolov, **Alexandre Loukanov**, Anatoly Angelov, Application of carbon quantum dots for dye sensitized solar cells, *Annual of the University of Mining and Geology "St. Ivan Rilski"* **59** (2016) 156-159. ISSN: 1312-1820

IV. Книги и учебници

1. A. Tiwari, A. Mishra, H. Kobayashi, A. Turner, **Intelligent Nanomaterials** (2011) *Wiley Scrivener*, USA, Chapters 1 & 17;
2. Александър Луканов, **Експериментална биохимия** (2013) *Издателска къща "Св. Иван Рилски"*, България, Първо издание, ISBN: 978-954-353-230-8
3. Александър Луканов, **Химия на околната среда** (2014) *Издателска къща "Св. Иван Рилски"*, България, Първо издание, ISBN: 978-954-353-264-3
4. Александър Луканов, **Биосензори и биоиндикатори** (2016) *Издателска къща "Св. Иван Рилски"*, България, Първо издание, ISBN: 978-954-353-298-8

Приложение 2

ПРОЕКТИ за периода 2010-2017

01/04/16 – 01/03/18	"Multi-electron transfer in supramolecular nanosystems", International joint research project between Japanese Society for Promotion of Science - Japan and Hungarian Academy of Sciences Principal Investigator First year budget (direct costs): \$45,000
01/05/16 – 30/04/17	"Carbon quantum dots for photodynamic therapy" Principal Investigator Matsumae Foundation & Local fund of Saitama University First year budget (direct costs): \$18,000
20/12/10 – 01/07/13	Project № DDVU 02/36-20.12.2010 Title: "Purification of wastewaters from textile industry by nanostructured oxides and biotechnologies." Project Leader Funded by Bulgarian National Science Fund First year budget (direct costs): \$55,000
01/05/13 – 01/09/13	Project № BG051PO001-3.3.05-0001 Title: "Development of microbial fuel cell for xenobiotic transformation from wastewater by introducing catalytic nanomaterials" Funded by Bulgarian Ministry of Science and Education First year budget (direct costs): \$10,000