

CATEGORY	Page
0- Introduction	
1- Using bottom ash from the domestic waste incinerator to make building materials - Pham Ngoc Chuc, Dao Ngoc Nghiem, Nguyen Quang Bac, Doan Trung Dung, Nguyen Thi Ha Chi, Duong Thi Lim, Vo Van Tan, Hoang Thi Phuong, Luu Minh Dai	1
2- Synthesis of CdS nanomaterials and their photocatalytic activity under visible light - Nguyen Thi Viet Nga, Nguyen Thi Kim Diem, Tran Dinh Thinh, Nguyen Bich Nhat, Tran Chau Giang, Huynh Thi Minh Thanh, Nguyen Van Kim	8
3- Dibenzyl viologen adlayer functionalized graphitic surraces using electrochemical approach - Phan Thanh Hai, Tran Thi Ngoc Le, Truong Thi Cam Mai, Huynh Thi Minh Thanh, Huynh Thi Mien Trung	14
4- Synthesis and photocatalytic activity of ZnO/g-C ₃ N ₄ materials under visible light - Nguyen Thi Viet Nga, Do Thi Hong Tram, Nguyen Bich Nhat, Tran Chau Giang, Tran Dinh Thinh, Truong Thanh Tam, Nguyen Van Kim	18
5- In-vitro antifungal activities of silver-copper complex/chitosan (Ag-Cu@CS) nanoparticles synthesized by <i>in-situ</i> encapsulation - Le The Tam, Nguyen Hoa Du, Le Dang Quang, Ho Dinh Quang, Phan Thi Hong Tuyet, Chu Thi Thuy Dung, Tran Thi Ngan, Le Thi Thu Hiep, Tran Quang De	24
6- Study on the adsorption of Congo Red (CR) onto graphene oxide/polyvinyl alcohol/Fe ₃ O ₄ - Le Dieu Thu, Tran Vinh Hoang	31
7- Development of quantitative ion physic chemistry properties-activity relationship (QIPAR) and docking simulation for sars-covid-2 protein - Pham Van Tat, Nguyen Minh Quang, Bui Thi Phuong Thuy, Tran Thai Hoa, Nguyen Thanh Duoc	36
8- Synthesis of mo-doped Ag ₃ PO ₄ photocatalytic materials for the decomposition of RhB under visible light irradiation - Ngo Van Ngoc, Vo Hoang Anh, Phan Thi Thuy Trang, Diep Thi Lan Phuong, Nguyen Thi Lan	44
9- Study on Synthesis of Unsaturated Polyester Resin with Improved Characteristics and Application in Artificial Stones - Ho Xuan Nang, Pham Anh Tuan, Ha Thu Huong, Tran Vinh Dieu	50
10- Synthesis of Mo-Modified TiO ₂ Material with Enhanced Photocatalytic activity - Tran Huu Ha, Ngo Van Ngoc, Vo Vien, Nguyen Thi Lan	56
11- Synthesis and Characterization of TiO ₂ -Al ₂ O ₃ Nanocomposite via Sol-gel Method - Ha Thu Huong, Ho Xuan Nang, Pham Anh Tuan, Pham Thanh Huy	63
12- Synthesis of manganese activated zinc silicate phosphor by the sol - gel method - Bui Thi Van Anh, Huynh Thu Suong	69
13- Inhibition of rice-blast fungus <i>Magnaporthe oryzae</i> by <i>Piper betle</i> extracts: <i>in vitro</i> evidence and <i>in silico</i> prediction - Nguyen Thi Thanh Hai, Thanh Q. Bui, Tran Thi Ai My, Nguyen Duc Vu Quyen, Phan Tu Quy, Nguyen Tien Long, Nguyen Vinh Phu, Nguyen Thi Thu Thuy, Nguyen Thi Ai Nhungh	74
14- Study on Preparation and Characterization of Chitosan-Fucoidan-Curcumin Nanoparticles System - Vu Duy Hien, Nguyen Binh Duong, Quan Thi Thu Trang	81
15- Pyrolysis method of gel SiO ₂ /chitosan for the preparation amorphous silica nanoparticles from waste rice husk ash - Le Nghiem Anh Tuan, Lai Thi Kim Dung, Nguyen Hong Nhungh, Bui Duy Du	87
16- Size-controlled synthesis of alginate-stabilized Cu ₂ O@Cu nanoparticles: effect of stabilizer agent concentration on particle size - Le Nghiem Anh Tuan, Doan Thi Bich Ngoc, Tran Phuoc Tho, Nguyen Hong Nhungh, Bui Duy Du	92
17- Preparation nano CeO ₂ from Binh Dinh monazite ore by acid method and applying to environmental treatment - Cao Van Hoang, Nguyen Thi Dieu Cam, Nguyen Ngoc Hoa, Nguyen Van Luong, Nguyen Dinh Doc, Nguyen Quang Bac, Dao Ngoc Nghiem	98
18- Nonenzymatic formaldehyde sensors using nickel oxide based electrode fabricated by electrochemical method	103

	- Nguyen Van Truong, Thai Minh Duc, Tran Quoc Toan, Pham Hong Chuyen, Dang Van Thanh, Nguyen Quoc Dung	
19-	Structural, Morphological and Raman Characteristics of Cs ₂ SnCl ₆ Double-Perovskite Crystals - Le Anh Thi, Le Duy Manh, Do Thi Anh Thu, Ho Truong Giang, Man Minh Tan	108
20-	Controllable synthesis of -Fe ₂ O ₃ nanorods toward photoelectrochemical applications - Ngo Thi Hien Thao, Cao Thi Mong Gam, Ha Van Thanh, Nguyen Tan Lam, Tran Nam Trung	112
21-	Absorption properties and Quantum Confinement of colloidal CdSe quantum dots - Do Thi Anh Thu, Phan Ngoc Hong, Le Duy Manh, Le Anh Thi, Man Minh Tan	117
22-	Synthesis composite chitosan-mangetite apply to adsorption antibiotic in aqueous - Vu Quang Tung, Bui Minh Quy, Hoang Thi Duyen	121
23-	Growth Kinetics and Optical Proprties of CdSe Nanocrystals - Le Anh Thi, Dinh Thanh Binh, Do Hoang Tung, Tran Viet Nhan Hao, Do Quang Tam, Duong Dinh Phuoc, Man Minh Tan, Nguyen Minh Hoa	127
24-	Synthesis, structure and anticancer activities of Zn(II), Cd(II) complexes with 5,7-dichloro-8-hydroxyquino line-2-carboxaldehyde-4-methyl-3-thiosemicarbazone - Ninh Thi Minh Giang, Nguyen Thi Ngoc, Le Thi Hong Hai	132
25-	Enhanced photocatalytic performance for methylene blue degradation of TiO ₂ by transition metal oxides hybrid M _x O _y (M = Fe, V, W) - Le Thi Thanh Thuy, Pham Thi Loan, Nguyen Thi Tuyen	137
26-	Fabrication of ZnO thin film by dip-coating technique and study of photocatalytic activity in Rhodamine B degradation reaction - Vu Viet Doanh, Trinh Quang Thong, Le Hai Dang	142
27-	Synthesis of Fe ₃ O ₄ /Au/Eu(TTA) ₃ -folate nanomaterial for applications in biomedical - Hoang Thi Khuyen, Tran Thu Huong, Pham Thi Lien, Nguyen Thanh Huong, Nguyen Vu	147
28-	Study on UV resistance of high density polyethylene composite using waste gypsum - Tran Huu Trung, Mai Duc Huynh, Tran Thi Mai, Nguyen Huu Dat, Nguyen Thi Dieu Linh, Nguyen Thi Thu Trang, Thai Hoang, Nguyen Vu Giang	153
29-	Synthesis and investigation of photocatalytic and CO ₂ photoreductive properties of Ag/TiO ₂ nanowires - Vu Duy Thinh, Vu Dinh Lam, Ta Ngoc Bach, Phung Thi Thu, Le Thi Hong Phong, Do Hung Manh, Trinh Xuan Anh, Ngo Thi Hong Le	158
30-	Preparation and thermal conductivity of nanofluid-based coolanol 20 containing carbon nanotubes - To Anh Duc, Phan Ngoc Minh, Bui Hung Thang	163
31-	Preparation and characterization of Ammonium Polyphosphate/Diatomite Composite flame-retardant fillers - Tran Thi Thinh, La The Vinh, Nguyen Quang Bac	168
32-	Mechanical and weather resistance improvement of polyurethane thin films embedded with nanocomposites Ce O ₂ -SiO ₂ - Nguyen Quang Bac, Nguyen Thi Ha Chi, Doan Trung Dung, Pham Ngoc Chuc, Duong Thi Lim, Dao Ngoc Nghiem, Tran Dai Lam	173
33-	X-ray fluorescence equipment and method, nutrient content analysis in solid NPK compound fertilizer - Nguyen The Quynh, Dao Ngoc Nghiem, Le Quang Huy, Nguyen Nhu Duong, Vu Duc Kien, Nguyen Manh Cuong, Pham Ngoc Chuc, Nguyen The Long	180
34-	Synthesis of hybrid silver-doped graphene oxide material as a superior antibacterial performance and cadmium ion sensor - Nguyen Thi Thuy Linh, Che Quang Cong, Nguyen Minh Dat, Tran Chau Diep, Ninh Thi Tinh, Doan Ba Thinh, Nguyen Thanh Hoai Nam, Chau Gia Khang, Le Thi Bich Lieu, Doan Thi Yen Oanh, Hoang Minh Nam, Mai Thanh Phong, Nguyen Huu Hieu	187
35-	Distribution and characteristics of microplastics in surface water at some beaches in Thanh Hoa province, Viet Nam - Dao Dinh Cham, Duong Thi Lim, Nguyen Quang Bac, Dao Ngoc Nghiem, Dang Tran Quan, Nguyen Thi Lan Huong, Duong Cong Dien, Duong Thanh Nghi, Dinh Ngoc Hai	193

36-	E ffect of solvents on the structure of inorganic – organic hybrid material ZIF-11 - Nguyen Thi Anh Thu, Nguyen Thi Ai Nhun, Nguyen Thi Luy, Nguyen Le My Linh, Hoang Van Duc	201
37-	O ₃ -type layered Ni-rich cathode: synthesis and electrochemical characterization - Nguyen Le Minh, Nguyen Van Hoang, Bach Le Thuy Trang, Tran Van Man, Le My Loan Phung	206
38-	P reparation of high purity α -Al ₂ O ₃ from industrial aluminum hydroxide - La Thé Vinh, Nguyen Thi Hong Phuong, Nguyen Minh Anh	212
39-	A pplication of adsorbents based on LaFe _{1-x} Mn _x O ₃ perovskites to treat As, Pb in contaminated groundwater in the craft village - Vu The Ninh, Nguyen Viet Dung, Luu Minh Dai, Nguyen Thanh Anh	218
40-	E ffect of CVD parameters on large area growth of highly crystalline MoS ₂ thin flakes - Nguyen Van Tu, Pham Van Trinh, Nguyen Van Chuc, Vu Dinh Lam, Phan Ngoc Minh	224
41-	S ynthesis of metal organic framework mesostructured UIO-66 with defections in frameworks for enhancing photocatalytic degradation of residues pesticides Nguyen Duc Hai, Vu Minh Tan, Nguyen Thi Thu An, Phuong Long Ha, Hoang Mai Ha, Hac Thi Nhun, Ho Thi Oanh, Nguyen Duc Tuyen, Nguyen Quyet Tien, Nguyen Quang An, Nguyen Ngoc Tuan, Nguyen Dinh Tuyen	230
42-	P urification of commercial grade bentonite from LamDong, Vietnam for nano-size montmorillonite Nguyen Quoc Trung, Nguyen Hong Nhun, Nguyen Phuong Thao, Nguyen Van Chien	237
43-	S ynthesis, characterizations and the photocatalytic ability of Co _{1-x} Zn _x Fe ₂ O ₄ spinels prepared by combustion method Nguyen Xuan Dung, Phan Thi Minh Huyen	242
44-	R esearch Carbon Ceramic from Cashew Nut Shell Waste and Phenolic Resin Binding Agent Kieu Do Trung Kien, Nguyen Vu Uyen Nhi, Huynh Ngoc Minh, Do Quang Minh	247
45-	S ynthesis, characterization of Mg-Al-CO ₃ hydrotalcites modified by Cu ²⁺ ions using as photocatalyst for degradation of methylene blue in water Pham Thi Ha Thanh, Nguyen Quoc Dung, Le Thi Phuong, Vu Van Nhuong	252
46-	E lectrosynthesis of polyaniline nanowires/silver nanoparticles nanocomposite applied in development of electrochemical DNA sensors Tran Thi Luyen, Le Dieu Thu	259
47-	S tudy on the formation of solid solution when synthesizing manganese -doped zinc alkaline earth silicate luminescent pigment by impregnation - precipitation method Nguyen Thi Thanh, Le Xuan Thanh	264
48-	T he effect of TSC on photochemical synthesis of anisotropic silver nanoparticles under green LED irradiation Mai Ngoc Tuan Anh, Nguyen Cong Danh, Vo Nhi Kieu, Ngo Vo Ke Thanh, Nguyen Thi Phuong Phong, Nguyen Dai Hai	270
49-	A dsorption of Cu(II) ions from aqueous solutions using <i>Pinus kesiya</i> biomass Huynh Phuong Thao, Nguyen Van Ha, Nguyen Ngoc Tuan, Nguyen Tien Dat	275
50-	S ynthesis and application of M-BTC (M = Fe, Ni, Mn) materials as highly efficient photocatalyst in the photocatalytic degradation of reactive yellow 145 dye Nguyen Ba Manh, Le Ha Giang, Pham Thi Thu Trang, Pham Thi Ha My, Duong Anh Thanh, Le Van Dung, Pham Thi Thu Giang, Vu Thi Hoa, Nguyen Ke Quang, Dang Tuyet Phuong	281
51-	A dsorption of methylene blue in aqueous solution by adsorbent fabricating through activation of red mud with rice husk char Nguyen Thi Mai, Nguyen Manh Khai, Phung Thi Oanh, Nguyen Thi Khanh Van, Dang Van Thanh, Tran Quoc Toan	287
52-	E n hancing surface energy of polycarbonate by atmospheric pressure plasma jet Le Thi Quynh Xuan, Nguyen Tuan Minh, Nguyen Van Chuc and Dao Nguyen Thuan	293
53-	T he influence of Grinding Duration to the Cleaning of Tan Rai Aluminum Hydroxide for Preparation of α -Al ₂ O ₃ Huynh Thu Suong, Nguyen Thi Hong Phuong, La The Vinh, Nguyen Quang Bac	297
54-	D evelopment of new metal-thiosemicarbazone complexes using visual screening methods and <i>in silico</i> models Nguyen Minh Quang, Tran Nguyen Minh An, Pham Van Tat	302

55-	Corrosion inhibition of Henna leaf powder on steel substrates in acidic environment <i>Truong Anh Khoa, Le Thi Nhung, Phan Minh Phuong, Tran Dinh Binh, Nguyen Hoang</i>	311
56-	Investigation into the effect of the core structure, core-doped, core-doped/shell on the photoluminescence of nanoparticles applied to the detection of E. coli O 157:H7 and methicillin-resistant S. aureus (MRSA) <i>Bui Thi Diem, Nguyen Quang Liem, Pham Duy Khanh, Nguyen Van Khiem, Nguyen Trong Tang, Luong Thi Bich</i>	316
57-	Removal of methylene blue from aqueous solutions by internal microelectrolysis on the Fe -Cu materials <i>Do Tra Huong, Nguyen Van Tu, Nguyen Anh Tien, Nguyen Phuong Chi, Doan Van Kiet</i>	323
58-	Evaluation the metal content of copper (Cu), manganese (Mn) and zinc (Zn) in fish species <i>Gerres filamentosus</i> (Cuvier, 1829) in Gianh river at Quang Trach district, Quang Binh province <i>Nguyen Mau Thanh, Nguyen Duc Vuong, Nguyen Nho Dung, Nguyen Thanh Binh, Le Thu Ha, Nguyen Dinh Luyen</i>	329
59-	Visible light photocatalytic activity of TiO ₂ /MWCNTS nanocomposite prepared using hydrothermal method <i>Mai Xuan Truong, Tran Manh Cuong, Hau Van Huong, Bui Duc Nguyen</i>	334
60-	Preparation, characterization and photocatalytic activity of SrTiO ₃ and Ag ₂ O/SrTiO ₃ nanomaterials <i>Mai Xuan Truong, Ma Van Chien, Pham Trung Dung, Nguyen Thi To Loan, Bui Duc Nguyen</i>	339
61-	The effect of hybrid SnO ₂ /r-GO for the photocatalyst of visible light degradation of methylene blue <i>Le Thi Thanh Thuy, Nguyen Thi Le</i>	344
62-	Study on the accumulation and transformation of lead in liver and muscle of climbing perch (<i>Anabas testudineus</i>) <i>Dang Nguyen Nha Khanh, Ngo Thi Tuong Vy, Tran Ha Phuong, Pham Tuan Nhi, Vu Quang Huy, Nguyen Quoc Thang, Do Trung Sy, Le Tien Dung, Nguyen Duy Khanh, Nguyen Thi Kim Phuong</i>	350
63-	Effect of monovalent ion electrolyte on energy storage mechanism of nanocomposites TiO₂@CNTs <i>Huynh Le Thanh Nguyen, Le Nguyen Thao Trang, Nguyen Thi Nhu Quynh, Nguyen Thi Thu Trang, Le Viet Hai, Nguyen Thai Hoang, Pham Thi Nam, Tran Dai Lam, Le Trong Lu</i>	356
64-	Effect of impact – reflective super – speed grinding on TanRai Aluminum hydroxide characteristics and dissolution efficiency in acid and base media <i>Phung Vu Phong, Nguyen Thi Lien, Bui Cong Trinh, Le Thi Mai Huong</i>	361
65-	Synthesis, properties, luminescence of mixed ligands complexes of acetylsalicylate and 1,10 -phenanthroline with some light rare earth elements <i>Nguyen Thi Hien Lan, Nguyen Thi To Loan</i>	366
66-	Study on preparation of multi-oxide photocatalysts containing CeO ₂ /La ₂ O ₃ from Vietnamese rare earths to treat ammonium, phosphate and bacterial contamination in To Lich river water <i>Nguyen Thi Nhan, Ha Phuong Long, Nguyen Thi Thu An, Vu Duy Hien, Dao Ngoc Nghiem, Dang Thi Thom, Phan Do Hung, Pham Van Thiem, Cao Dinh Thanh, Nguyen Huy Cuong, Nguyen Dinh Tuyen</i>	373
67-	Decolorization of organic dyes in water using non-thermal plasma <i>Nguyen Binh Duong, Quan Thi Thu Trang, Phan Thi Ngoc Bich, Pham Van Lam</i>	382
68-	Synthesis, characterization and phosphate adsorption of (Fe, Al, Cu) oxit/bentonite nanocomposite <i>Pham Van Lam, Nguyen Binh Duong, Quan Thi Thu Trang, Phan Thi Ngoc Bich</i>	388
69-	Synthesis and Characterization of Melamine Polyphosphate and its Flame Retardance <i>Nguyen Quang Bac, Nguyen Thu Huong, Nguyen Ngoc Do, Ta Hong Duc</i>	395
70-	Synthesis and properties of YVO ₄ :Ho and YVO ₄ :Ho,Bi luminescent nanomaterials by combustion method <i>Nguyen Vu, Nguyen Thi Thoi, Pham Duc Roan, Nguyen Manh Hung, Lam Thi Kieu Giang, Dinh Manh Tien</i>	401
71-	Sn doped Hematite Nanorods for High-Performance Photoelectrochemical Water Splitting <i>Truong Thi Hien, Vu Thi Bich, Phan Thi Binh Mai, Thi Thanh Thuy, Man Minh Tan, Nguyen Tien Dai, Tran Thi Trang, Chu Thi Thu Hien, Chu Van Tuan, Nguyen Thi Nguyet</i>	405