

DAFTAR PUSTAKA

- Ai, L., Zeng, Y., and Jiang, J., 2014, Hierarchical porous BiOI architectures: Facile microwave nonaqueous synthesis, characterization and application in the removal of Congo red from aqueous solution, *Chem. Eng. J.*, 235, 331–339.
- Al-Hada, N.M., Kasmani, R.M., Kasim, H., Al-Ghaili, A.M., Saleh, M.A., Banoqitah, E.M., Alhawsawi, A.M., Baqer, A.A., Liu, J., Xu, S., Li, Q., Noorazlan, A.M., Ahmed, A.A.A., Flaifel, M.H., Paiman, S., Nazrin, N., Al-Asbahi, B.A., and Wang, J., 2021, The effect of precursor concentration on the particle size, crystal size, and optical energy gap of cexsn1–xo2 nanofabrication, *Nanomaterials*, 11, 1–14.
- Ameta, R., Solanki, M.S., Benjamin, S., and Ameta, S.C., 2018, Photocatalysis,. In, *Advanced Oxidation Processes for Wastewater Treatment: Emerging Green Chemical Technology*. Academic Press, pp. 135–175.
- Anwar, M.S., Danish, R., Park, K.Y., and Koo, B.H., 2015, Effect of precursor concentration on the structural, morphological, and optical properties of TiO₂ nano-flowers, *Korean J. Mater. Res.*, 25, 247–252.
- Bac, B., Dung, N., Khang, L., Hung, K., Lam, N., An, D., Son, P., Anh, T., Chuong, D., and Tinh, B., 2018, Distribution and Characteristics of Nanotubular Halloysites in the Thach Khoan Area, Phu Tho, Vietnam, *Minerals*, 8, 290.
- Bhujel, A., Sapkota, B., Aryal, R.L., Poudel, B.R., Bhattarai, S., and Gautam, S.K., 2021, Insight of precursor concentration, particle size and band gap of zirconia nanoparticles synthesized by co-precipitation method, *Bibechana*, 18, 1–9.
- Bonelli, B., Bottero, I., Ballarini, N., Passeri, S., Cavani, F., and Garrone, E., 2009, IR spectroscopic and catalytic characterization of the acidity of imogolite-based systems, *J. Catal.*, 264, 15–30.
- Bordeepong, S., Bhongsuwan, D., Pungrassami, T., and Bhongsuwan, T., 2011, Characterization of halloysite from Thung Yai District , *J. Sci. Technol.* 33, 33, 599–607.
- Chatterjee, S., Guha, N., Krishnan, S., Singh, A.K., Mathur, P., and Rai, D.K., 2020, Selective and Recyclable Congo Red Dye Adsorption by Spherical Fe₃O₄ Nanoparticles Functionalized with 1,2,4,5-Benzenetetracarboxylic Acid, *Sci. Rep.*, 10, 111.
- Churchman, G.J. and Lowe, D.J., 2012, Alteration, Formation, and Occurrence of Minerals in Soils Introduction: The Role of Mineralogy in Soil Science,. In, Summer, M.E. (ed), *Handbook of Soil Sciences. 2nd edition. Vol. 1: Properties*

- and Processes*. CRC Press (Taylor & Francis), Boca Raton, FL., pp. 20.1-20.72.
- Cipta, I., Limatahu, N.A., Nur Abu, S.H., Kartini, I., and Arryanto, Y., 2017, Characterization of allophane from gamalama volcanic soil, North Maluku, Indonesia, *Asian J. Chem.*, 29, 1702–1704.
- Cradwick, P.D.G., Farmer, V.C., Russell, J.D., Masson, C.R., Wada, K., and Yoshinaga, N., 1972, Imogolite, a Hydrated Aluminium Silicate of Tubular Structure, *Nat. Phys. Sci.*, 240, 187–189.
- Cravero, F., Fernández, L., Marfil, S., Sánchez, M., Maiza, P., and Martínez, A., 2016, Spheroidal halloysites from Patagonia, Argentina: Some aspects of their formation and applications, *Appl. Clay Sci.*, 131, 48–58.
- Crini, G. and Lichtfouse, E., 2018, Advantages and disadvantages of techniques used for wastewater treatment, *Environ. Chem. Lett.* 2018 171, 17, 145–155.
- Cui, B., Cui, H., Li, Z., Dong, H., Li, X., Zhao, L., and Wang, J., 2019, Novel Bi₃O₅I₂ hollow microsphere and its enhanced photocatalytic activity, *Catalysts*, 9, 1–14.
- Dai, B., Zhang, A., Zhang, D., Liu, Z., Li, H., Wang, R., and Zhang, X., 2019, Effect of preparation method on the structure and photocatalytic performance of BiOI and Bi₅O₇I for Hg⁰ removal, *Atmos. Pollut. Res.*, 10, 355–362.
- Dai, W.-W. and Zhao, Z.-Y., 2017, Structural and electronic properties of low-index stoichiometric BiOI surfaces, *Mater. Chem. Phys.*, 193, 164–176.
- Delmelle, P., Opfergelt, S., Cornelis, J.-T., and Ping, C.-L., 2015, Volcanic Soils., In: Sigurdsson, H. (ed), *The Encyclopedia of Volcanoes*. Elsevier, pp. 1253–1264.
- Di, J., Xia, J., Li, H., Guo, S., and Dai, S., 2017, Bismuth oxyhalide layered materials for energy and environmental applications, *Nano Energy*, 41, 172–192.
- Dong, Y., Liu, Z., and Chen, L., 2012, Removal of Zn(II) from aqueous solution by natural halloysite nanotubes, *J. Radioanal. Nucl. Chem.*, 292, 435–443.
- Enyashin, A.N., Seifert, G., and Duarte, A., 2010, Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models, *J. Phys. Chem. C*, 114, 11358–11363.
- Feldmann, C., 2005, Polyol-mediated synthesis of nanoscale functional materials, *Solid State Sci.*, 7, 868–873.
- Florez-Rios, J.F., Santana-Aranda, M.A., Quiñones-Galván, J.G., Escobedo-Morales, A., Chávez-Chávez, A., and Pérez-Centeno, A., 2020, Alternative Bi precursor effects on the structural, optical, morphological and photocatalytic properties of BiOI nanostructures, *Mater. Res. Express*, 7, 015912.
- Fradj, A. Ben, Boubakri, A., Hafiane, A., and Hamouda, S. Ben, 2020, Removal of

- azoic dyes from aqueous solutions by chitosan enhanced ultrafiltration, *Results Chem.*, 2, 100017.
- Guan, Y., Qian, H., Guo, J.Q., Yang, S., Wang, X., Wang, S., and Fu, Y., 2015, Synthesis of acidified palygorskite/BiOI with exceptional performances of adsorption and visible-light photoactivity for efficient treatment of aniline wastewater, *Appl. Clay Sci.*, 114, 124–132.
- Gusman, M., Nazki, A., and Putra, R.R., 2018, The modelling influence of water content to mechanical parameter of soil in analysis of slope stability, *J. Phys. Conf. Ser.*, 1008(2018)012022.
- Hafizovic, J., Bjørgen, M., Olsbye, U., Dietzel, P.D.C., Bordiga, S., Prestipino, C., Lamberti, C., and Lillerud, K.P., 2007, The inconsistency in adsorption properties and powder XRD data of MOF-5 is rationalized by framework interpenetration and the presence of organic and inorganic species in the nanocavities, *J. Am. Chem. Soc.*, 129, 3612–3620.
- Han, M.H. and Yun, Y.S., 2007, Mechanistic understanding and performance enhancement of biosorption of reactive dyestuffs by the waste biomass generated from amino acid fermentation process, *Biochem. Eng. J.*, 36, 2–7.
- Hanafi, M.F., and Sapawe, N., 2020, A review on the water problem associate with organic pollutants derived from phenol, methyl orange, and remazol brilliant blue dyes, *Mater. Today Proc.*, 31, A141–A150.
- Hanif, M., Jabbar, F., Sharif, S., Abbas, G., Farooq, A., and Aziz, M., 2016, Halloysite nanotubes as a new drug-delivery system: a review, *Clay Miner.*, 51, 469–477.
- Harding, X.U.E., Jianwei, L.I., and Lingmei, G.E., 2006, Photoeatalytic Degradation of Methyl Thionine Chloride in Aqueous Solution over Nanometer (CdS/TiO₂)/MCM-41, *J. Wuhan Univ. Technol.*, 21, 19–23.
- Hu, J., Weng, S., Zheng, Z., Pei, Z., Huang, M., and Liu, P., 2014, Solvents mediated-synthesis of BiOI photocatalysts with tunable morphologies and their visible-light driven photocatalytic performances in removing of arsenic from water, *J. Hazard. Mater.*, 264, 293–302.
- Ikhlaq, A., Munir, H.M.S., Khan, A., Javed, F., and Joya, K.S., 2019, Comparative study of catalytic ozonation and Fenton-like processes using iron-loaded rice husk ash as catalyst for the removal of methylene blue in wastewater, *Ozone Sci. Eng.*, 41, 250–260.
- Jemaï, Ben M'barek, M., Sdiri, A., Errais, E., Duplay, J., Ben Saleh, I., Zagarni, M.F., and Bouaziz, S., 2015, Characterization of the Ain Khemouda halloysite (western Tunisia) for ceramic industry, *J. African Earth Sci.*, 111, 194–201.
- Jia, P., Tan, H., Liu, K., and Gao, W., 2018, Removal of Methylene Blue from

- Aqueous Solution by Bone Char, *Appl. Sci.*, 8, 1903.
- Jian, Z. and Hejing, W., 2003, The Physical Meanings of 5 Basic Parameters for an X-Ray Diffraction Peak and Their Application, *Chinese J. Geochemistry*, 22, 38–44.
- Jiang, Y.R., Chou, S.Y., Chang, J.L., Huang, S.T., Lin, H.P., and Chen, C.C., 2015, Hydrothermal synthesis of bismuth oxybromide-bismuth oxyiodide composites with high visible light photocatalytic performance for the degradation of CV and phenol, *RSC Adv.*, 5, 30851–30860.
- Joussein, E., Petit, S., Churchman, J., Theng, B., Righi, D., and Delvaux, B., 2005, Halloysite clay minerals – a review, *Clay Miner.*, 40, 383–426.
- Katsumata, K.-I., Hou, X., Sakai, M., Nakajima, A., Fujishima, A., Matsushita, N., Mackenzie, K.J.D., and Okada, K., 2013, Visible-light-driven photodegradation of acetaldehyde gas catalyzed by aluminosilicate nanotubes and Cu(II)-grafted TiO₂ composites, *Applied Catal. B, Environ.*, 138–139, 243–252.
- Khan, Idrees, Saeed, K., Zekker, I., Zhang, B., Hendi, A.H., Ahmad, A., Ahmad, S., Zada, N., Ahmad, H., Shah, L.A., Shah, T., and Khan, Ibrahim, 2022, Review on Methylene Blue: Its Properties, Uses, Toxicity and Photodegradation, *Water (Switzerland)*, 14, .
- Kim, J., Rubino, I., Lee, J.-Y., and Choi, H.-J., 2016, Application of halloysite nanotubes for carbon dioxide capture, *Mater. Res. Express*, 3, 045019.
- Kočí, K., Matějka, V., Kovář, P., Lacný, Z., Lacný, L., and Obalová, L., 2010, Comparison of the pure TiO₂ and kaolinite/TiO₂ composite as catalyst for CO₂ photocatalytic reduction, *Catal. Today*, 161, 105–109.
- Konicki, W., Cendrowski, K., Bazarko, G., and Mijowska, E., 2015, Study on efficient removal of anionic, cationic and nonionic dyes from aqueous solutions by means of mesoporous carbon nanospheres with empty cavity, *Chem. Eng. Res. Des.*, 94, 242–253.
- Levard, C., Doelsch, E., Basile-Doelsch, I., Abidin, Z., Miche, H., Masion, A., Rose, J., Borschneck, D., and Bottero, J.Y., 2012, Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils, *Geoderma*, 183–184, 100–108.
- Li, H., Yang, Z., Zhang, J., Huang, Y., Ji, H., and Tong, Y., 2017, Indium doped BiOI nanosheets: Preparation, characterization and photocatalytic degradation activity, *Appl. Surf. Sci.*, 423, 1188–1197.
- Li, X., Wen, J., Low, J., Fang, Y., and Yu, J., 2014, Design and fabrication of semiconductor photocatalyst for photocatalytic reduction of CO₂ to solar fuel, *Sci. China Mater.*, 57, 70–100.

- Li, Y., Qin, H., Sun, H., Zhang, M., Wang, J., Yao, H., and Li, Z., 2015, Synthesis of BiOI hierarchical nanospheres and their application in photocatalysis, *Mater. Lett.*, 152, 248–251.
- Li, Y., Wang, J., Liu, B., Dang, L., Yao, H., and Li, Z., 2011a, BiOI-sensitized TiO₂ in phenol degradation: A novel efficient semiconductor sensitizer, *Chem. Phys. Lett.*, 508, 102–106.
- Li, Y., Wang, J., Yao, H., Dang, L., and Li, Z., 2011b, Efficient decomposition of organic compounds and reaction mechanism with BiOI photocatalyst under visible light irradiation, *J. Mol. Catal. A Chem.*, 334, 116–122.
- Li, Y., Yao, H., Wang, J., Wang, N., and Li, Z., 2011c, Influence of the precipitation pH on the compositions and properties of Bi-based oxyiodide photocatalysts, *Mater. Res. Bull.*, 46, 292–296.
- Liao, C., Ma, Z., Chen, X., He, X., and Qiu, J., 2016, Controlled synthesis of bismuth oxyiodide toward optimization of photocatalytic performance, *Appl. Surf. Sci.*, 387, 1247–1256.
- Lin, H., Ye, H., Xu, B., Cao, J., and Chen, S., 2013, Ag₃PO₄ quantum dot sensitized BiPO₄: A novel p–n junction Ag₃PO₄/BiPO₄ with enhanced visible-light photocatalytic activity, *Catal. Commun.*, 37, 55–59.
- Liu, C., Wang, J., Wang, X., Li, F., Zhang, L., and Chen, Y., 2015, Synthesis and characterization of BiOI/montmorillonite composites with high visible light photocatalytic activity, *Russ. J. Phys. Chem. A*, 89, 2313–2319.
- Liu, H., Cao, W.-R., Su, Y., Chen, Z., and Wang, Y., 2013a, Bismuth oxyiodide–graphene nanocomposites with high visible light photocatalytic activity, *J. Colloid Interface Sci.*, 398, 161–167.
- Liu, Q.C., Ma, D.K., Hu, Y.Y., Zeng, Y.W., and Huang, S.M., 2013b, Various bismuth oxyiodide hierarchical architectures: Alcohothermal-controlled synthesis, photocatalytic activities, and adsorption capabilities for phosphate in water, *ACS Appl. Mater. Interfaces*, 5, 11927–11934.
- Moura, D.C. De, Quiroz, M.A., Silva, D.R. Da, Salazar, R., and Martínez-Huitle, C.A., 2016, Electrochemical degradation of Acid Blue 113 dye using TiO₂-nanotubes decorated with PbO₂ as anode, *Environ. Nanotechnology, Monit. Manag.*, 5, 13–20.
- Nan Chong, M., Jin, B., Chow, C.W., and Saint, C., 2010, Recent developments in photocatalytic water treatment technology: A review, *Water Res.*, 44, 2997–3027.
- Natarajan, R. and Manivasagan, R., 2020, Effect of operating parameters on dye wastewater treatment using *Prosopis cineraria* and kinetic modeling, *Environ. Eng. Res.*, 25, 788–793.

- Ola, O. and Maroto-Valer, M.M., 2015, Review of material design and reactor engineering on TiO₂ photocatalysis for CO₂ reduction, *J. Photochem. Photobiol. C Photochem. Rev.*, 24, 16–42.
- Ortiz-quin, L., Zumeta-dube, I., David, D., Nava-etzana, N., Cruz-zaragoza, E., and Santiago-jacinto, P., 2017, Bismuth Oxide Nanoparticles Partially Substituted with Eu III , Mn IV , and Si IV : Structural , Spectroscopic , and Optical Findings,.
- Papoulis, D., Komarneni, S., Nikolopoulou, A., Tsohis-Katagas, P., Panagiotaras, D., Kacandes, H.G., Zhang, P., Yin, S., Sato, T., and Katsuki, H., 2010, Palygorskite- and Halloysite-TiO₂ nanocomposites: Synthesis and photocatalytic activity, *Appl. Clay Sci.*, 50, 118–124.
- Parfitt, R.L., Russell, M., and Orbell, G.E., 1983, Weathering sequence of soils from volcanic ash involving allophane and halloysite, New Zealand, *Geoderma*, 29, 41–57.
- Parul, Kaur, K., Badru, R., Singh, P.P., and Kaushal, S., 2020, Photodegradation of organic pollutants using heterojunctions: A review, *J. Environ. Chem. Eng.*, 8, 103666.
- Pasbakhsh, P., Churchman, G.J., and Keeling, J.L., 2013, Characterisation of properties of various halloysites relevant to their use as nanotubes and microfibre fillers, *Appl. Clay Sci.*, 74, 47–57.
- Putri, A.A., Kato, S., Kishi, N., and Soga, T., 2019, Relevance of precursor molarity in the prepared bismuth oxyiodide films by successive ionic layer adsorption and reaction for solar cell application, *J. Sci. Adv. Mater. Devices*, 4, 116–124.
- Ramadass, K., Singh, G., Lakhi, K.S., Benzigar, M.R., Yang, J.H., Kim, S., Almajid, A.M., Belperio, T., and Vinu, A., 2019, Halloysite nanotubes: Novel and eco-friendly adsorbents for high-pressure CO₂ capture, *Microporous Mesoporous Mater.*, 277, 229–236.
- Sadat, M., Mojtaba, N., Seyedeh, H., Ghasemi, S., and Arab, M., 2018, Synthesis of ZnO nanostructure using activated carbon for photocatalytic degradation of methyl orange from aqueous solutions, *Appl. Water Sci.*, 8, 1–12.
- Saeed, K., Khan, I., Gul, T., and Sadiq, M., 2017, Efficient photodegradation of methyl violet dye using TiO₂/Pt and TiO₂/Pd photocatalysts, 3841–3848.
- Sharma, S., Hasan, A., Kumar, N., and Pandey, L.M., 2018, Removal of methylene blue dye from aqueous solution using immobilized *Agrobacterium fabrum* biomass along with iron oxide nanoparticles as biosorbent, *Environ. Sci. Pollut. Res.*, 25, 21605–21615.
- Singh, M., Goyal, M., and Devlal, K., 2018, Size and shape effects on the band gap of semiconductor compound nanomaterials,

<https://doi.org/10.1080/16583655.2018.1473946>, 12, 470–475.

- Sivakumar, A., Murugesan, B., Loganathan, A., and Sivakumar, P., 2014, A review on decolourisation of dyes by photodegradation using various bismuth catalysts, *J. Taiwan Inst. Chem. Eng.*, 45, 2300–2306.
- Soma, M., Churchman, G.J., and Theng, B.K.G., 1992, X-ray photoelectron spectroscopic analysis of halloysites with different composition and particle morphology, *Clay Miner.*, 27, 413–421.
- Song, Y., Hao, X., Dai, W., and Zhao, J., 2019, Aqueous Synthesis and Photocatalytic Performance of Bi₅O₇I Microflowers, *Nano*, 14, 265–271.
- Szczepanik, B., Banaś, D., Kubala-Kukuś, A., Szary, K., Słomkiewicz, P., Rędzia, N., and Frydel, L., 2020, Surface properties of halloysite-carbon nanocomposites and their application for adsorption of paracetamol, *Materials (Basel)*, 13, 1–17.
- Szczepanik, B., Rogala, P., Słomkiewicz, P.M., Banaś, D., Kubala-Kukuś, A., and Stabrawa, I., 2017, Synthesis, characterization and photocatalytic activity of TiO₂-halloysite and Fe₂O₃-halloysite nanocomposites for photodegradation of chloroanilines in water, *Appl. Clay Sci.*, 149, 118–126.
- Tago, T., Kataoka, N., Tanaka, H., Kinoshita, K., and Kishida, S., 2017, XPS study from a clean surface of Al₂O₃ single crystals, *Procedia Eng.*, 216, 175–181.
- Takahashi, T., Dahlgren, R.A., Theng, B.K.G., Whitton, J.S., and Soma, M., 2001, Potassium-Selective, Halloysite-Rich Soils Formed in Volcanic Materials from Northern California, *Soil Sci. Soc. Am. J.*, 65, 516–526.
- Tarasova, E., Naumenko, E., Rozhina, E., Akhatova, F., and Fakhrullin, R., 2019, Cytocompatibility and uptake of polycations-modified halloysite clay nanotubes, *Appl. Clay Sci.*, 169, 21–30.
- Tunega, D. and Zaoui, A., 2020, Mechanical and Bonding Behaviors behind the Bending Mechanism of Kaolinite Clay Layers, *J. Phys. Chem. C*, 124, 7432–7440.
- Vacca, A., Adamo, P., Pigna, M., and Violante, P., 2003, Genesis of Tephra-derived Soils from the Roccamonfina Volcano, South Central Italy, *Soil Sci. Soc. Am. J.*, 207, 198–207.
- Veerabadran, N.G., Price, R.R., and Lvov, Y.M., 2007, Clay Nanotubes for Encapsulation and Sustained Release of Drugs, *Nano*, 02, 115–120.
- Wahyuzi, R., Zakaria, Z., and Sophian, R.I., 2018, Slope stability affected by percentage of soil water content in Dago Giri, West Bandung regency, *AIP Conf. Proc.*, 1987, .
- Wang, R., Jiang, G., Ding, Y., Wang, Y., Sun, X., Wang, X., and Chen, W., 2011, Photocatalytic Activity of Heterostructures Based on TiO₂ and Halloysite

- Nanotubes, *ACS Appl. Mater. Interfaces*, 3, 4154–4158.
- Wang, Xiaomei, Cheng, H., Chai, P., Bian, J., Wang, Xiaoming, Liu, Y., Yin, X., Pan, S., and Pan, Z., 2020, Pore Characterization of Different Clay Minerals and Its Impact on Methane Adsorption Capacity, *Energy & Fuels*, 34, 12204–12214.
- Wang, Z., Xu, Q., Meng, T., Ren, T., and Chen, D., 2015, Preparation and Characterization of CdS/TiO₂ –Mt Composites with Enhanced Visible Light Photocatalytic Activity, *Energy Environ. Focus*, 4, 149–156.
- Weng, B., Liu, S., Tang, Z.-R., and Xu, Y.-J., 2014, One-dimensional nanostructure based materials for versatile photocatalytic applications, *RSC Adv.*, 4, 12685–12700.
- Wijannarong, S., Aroonsrimorakot, S., Thavipoke, P., Kumsopa, charaporn, and Sangjan, S., 2013, Removal of Reactive Dyes from Textile Dyeing Industrial Effluent by Ozonation Process, *APCBEE Procedia*, 5, 279–282.
- Wu, G., Zhao, Y., Li, Y., Ma, H., and Zhao, J., 2018, pH-dependent synthesis of iodine-deficient bismuth oxyiodide microstructures: Visible-light photocatalytic activity, *J. Colloid Interface Sci.*, 510, 228–236.
- Wu, L., Liu, X., Lv, G., Zhu, R., Tian, L., Liu, M., Li, Y., Rao, W., Liu, T., and Liao, L., 2021, Study on the adsorption properties of methyl orange by natural one-dimensional nano-mineral materials with different structures, *Sci. Rep.*, 11, 1–11.
- Wu, S., Zhang, L., and Chen, J., 2012, Paracetamol in the environment and its degradation by microorganisms, *Appl. Microbiol. Biotechnol.* 2012 964, 96, 875–884.
- Xiao, X., Lin, Y., Pan, B., Fan, W., and Huang, Y., 2018, Photocatalytic degradation of methyl orange by BiOI/Bi₄O₅I₂ microspheres under visible light irradiation, *Inorg. Chem. Commun.*, 93, 65–68.
- Xiao, X. and Zhang, W.-D., 2010, Facile synthesis of nanostructured BiOI microspheres with high visible light-induced photocatalytic activity, *J. Mater. Chem.*, 20, 5866–5870.
- Yang, J., Xu, L., Liu, C., and Xie, T., 2014a, Preparation and photocatalytic activity of porous Bi₅O₇I nanosheets, *Appl. Surf. Sci.*, 319, 265–271.
- Yang, S., Liu, Z., Jiao, Y., Liu, Y., Ji, C., and Zhang, Y., 2014b, New insight into PEO modified inner surface of HNTs and its nano-confinement within nanotube, *J. Mater. Sci.*, 49, 4270–4278.
- Yang, Y., Zhang, C., Lai, C., Zeng, G., Huang, D., Cheng, M., Wang, J., Chen, F., Zhou, C., and Xiong, W., 2018, BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management, *Adv.*

Colloid Interface Sci., 254, 76–93.

- Yao, X., Ma, C., Huang, H., Zhu, Z., Dong, H., Li, C., Zhang, W., Yan, Y., and Liu, Y., 2018, Solvothermal-Assisted Synthesis of Biomass Carbon Quantum Dots/Bismuth Oxyiodide Microflower for Enhanced Photocatalytic Activity, *Nano*, 13, 1–11.
- Ye, L., Jin, X., Ji, X., Liu, Chuan, Su, Y., Xie, H., and Liu, Chao, 2016, Facet-dependent photocatalytic reduction of CO₂ on BiOI nanosheets, *Chem. Eng. J.*, 291, 39–46.
- Ye, L., Wang, H., Jin, X., Su, Y., Wang, D., Xie, H., Liu, Xiaodi, and Liu, Xinxin, 2015, Synthesis of olive-green few-layered BiOI for efficient photoreduction of CO₂ into solar fuels under visible/near-infrared light, *Sol. Energy Mater. Sol. Cells*, 144, 732–739.
- Yu, C., Fan, C., Yu, J.C., Zhou, W., and Yang, K., 2011, Preparation of bismuth oxyiodides and oxides and their photooxidation characteristic under visible/UV light irradiation, *Mater. Res. Bull.*, 46, 140–146.
- Yu, C., Fan, J., Tian, B., and Zhao, D., 2004, Morphology Development of Mesoporous Materials: A Colloidal Phase Separation Mechanism, *Chem. Mater.*, 16, 889–898.
- Zhang, J., Chen, Z., Qiu, Y., Li, M., Yang, H., Huang, Y., and Chen, J., 2018, Preparing BiOI photocatalyst for degradation of methyl blue in wastewater Preparing BiOI photocatalyst for degradation of methyl blue in wastewater, *Inorg. Chem. Com.*, 98, 58 - 61.
- Zhao, M. and Liu, P., 2008, Adsorption behavior of methylene blue on halloysite nanotubes, *Microporous Mesoporous Mater.*, 112, 419–424.
- Zhao, Z.Y. and Dai, W.W., 2015, Electronic Structure and Optical Properties of BiOI Ultrathin Films for Photocatalytic Water Splitting, *Inorg. Chem.*, 54, 10732–10737.
- Ziegler, K., Hsieh, J.C.C., Chadwick, O.A., Kelly, E.F., Hendricks, D.M., and Savine, S.M., 2003, Halloysite as a kinetically controlled end product of arid-zone basalt weathering, *Chem. Geol.*, 202, 461–478.