

Retraction notice regarding several articles published in Main Group Chemistry

The Publisher and Editor-in-Chief of the journal *Main Group Chemistry* retract a total of 33 articles from the journal's online catalog. The articles were published in different issues of the journal during the period 2018–2020. All articles affected by this retraction notice have sound evidence of systematic manipulation of the publication process and similar problems were found across articles. The investigations were carried out in accordance with the recommendations of the Committee on Publication Ethics (COPE).

1. Affected articles

This retraction notice is applicable to the following articles. The original online articles have been updated with a watermark of “RETRACTED” inserted on every page.

Gong, G.-H., Bian, M., Liu, C.-Y., Zhang, B. (2019). Heterocyclic pyran and polyhydroquinoline derivatives to inhibit human breast cancer cells. *Main Group Chemistry*, 18(1), 15-22. doi: 10.3233/MGC-180676

Chen, L.-T., Zhu, K.-B., Qu, C.-F. (2018). Novel 4-hydroxycoumarin derivatives: Inhibiting growth of human lung cancer cells. *Main Group Chemistry*, 17(4), 301-307. doi: 10.3233/MGC-180677

He, X., Lei, K., Liu, S. (2019). Two new Anderson-type polyoxometalate complexes: Inhibiting human endometrial carcinoma cells. *Main Group Chemistry*, 18(1), 23-29. doi: 10.3233/MGC-180678

Fan, R., Sun, S., Yang, S., Liu, L., Ma, G., Tang, Q. (2018). A new Pb(II)-based coordination polymer constructed by 5-((4-carboxyphenoxy) methyl)benzene-1,3-dioic acid and N-donor co-ligand: Crystal structure and anti-lymph cancer activity. *Main Group Chemistry*, 17(4), 309-315. doi: 10.3233/MGC-180679

Li, P., Ge, X., Wu, H.-L. (2019). Crystal structure, anti-cervical cancer activity and docking studies of a new heterocycles compound. *Main Group Chemistry*, 18(2), 63-70. doi: 10.3233/MGC-180680

Gale, T., Zhang, Z., Liu, Y., Pan, L. (2018). Novel pyran derivatives: Synthesis and anticancer activity in the bones. *Main Group Chemistry*, 17(4), 317-323. doi: 10.3233/MGC-180681

Han, H., Zhang, Z.-F., Zhang, J.-F., Zhang, B. (2019). Novel coumarin derivatives: Synthesis, anti-breast cancer activity and docking study. *Main Group Chemistry*, 18(2), 71-79. doi: 10.3233/MGC-180682

Jiang, S., Liu, R., Liao, J., Liu, L., Zhou, Q. (2019). A novel In(III)-based nanoscale coordination polymer: Anticancer activity in nasopharyngeal carcinoma. *Main Group Chemistry*, 18(2), 81-87. doi: 10.3233/MGC-180686

Wang, Y., Chen, J.-H., Guo, D.-X. (2019). Two novel chromone derivatives: Crystal structures and anti-lymphoma activity. *Main Group Chemistry*, 18(2), 101-106. doi: 10.3233/MGC-180698

Han, H., Li, C., Zhang, Z.-F., An, G.-F. (2019). Synthesis, biological evaluation and docking studies of 4-hydroxycoumarin derivatives as anti-liver cancer agents. *Main Group Chemistry*, 18(3), 193-201. doi: 10.3233/MGC-180717

Shao, H., Kong, C., Yang, Q.-H., Tai, Q.-P. (2019). Synthesis, anti-gastric cancer activity and docking studies of naphthol derivatives. *Main Group Chemistry*, 18(2), 153-159. doi: 10.3233/MGC-180722

Yin, Y.-X., Cai, B.-B., Yin, H.-C. (2019). Three new Cu(II)-organic coordination polymers: Crystal structures and inhibiting human gastric cancer cells activity evaluation. *Main Group Chemistry*, 18(3), 203-211. doi: 10.3233/MGC-180724

Liu, D., Shen, R., Zhao, L.-X., Hou, C.-C., Cheng, J., Bai, D.-C. (2019). New α , β -unsaturated bis-enone derivatives: Anticancer activity in human osteogenic sarcoma cells and docking study. *Main Group Chemistry*, 18(4), 315-323. doi: 10.3233/MGC-180725

Wu, L., Wang, L.-L., Li, H. (2019). Two polyoxometalate-based coordination polymers: Synthesis, characterization and *in vitro* anti-lung cancer activity. *Main Group Chemistry*, 18(4), 337-344. doi: 10.3233/MGC-180740

Sun, Y.-F., Shao, L.-W., Chen, Q., Gao, X., Li, F., Wu, C.-Y. (2019). Two ho(III) metal-organic complexes constructed from two similar organic ligands: Anticancer activity against human spinal tumor cells. *Main Group Chemistry*, 18(2), 161-168. doi: 10.3233/MGC-180741

Feng, S. (2019). Two new polyoxometalate containing coordination polymers: Crystal structures and anti-oral cancer activity evaluation. *Main Group Chemistry*, 18(3), 213-220. doi: 10.3233/MGC-180745

Chen, K., Shan, H.-Z., Wang, Q.-F., Zhang, L.-Y. (2019). Two new metal coordination polymers: Characterization and application for reducing the viability of human thyroid tumor cells. *Main Group Chemistry*, 18(3), 221-229. doi: 10.3233/MGC-180746

Huang, S., Jin, Q., Wang, Y., Sun, Y., Wang, F. (2019). Anti-liver cancer activity evaluation of a polyoxometalate-organic co-crystal compound and its related coordination polymer. *Main Group Chemistry*, 18(3), 231-238. doi: 10.3233/MGC-180747

Yan, B., Yang, W., Han, X., Han, L. (2019). Crystal structures and antitumor activity evaluation against gastric carcinoma of two novel coordination polymers. *Main Group Chemistry*, 18(3), 239-246. doi: 10.3233/MGC-180748

Lv, G., Li, W.-J., Chen, W.-Y., Xia, Y. (2019). Novel pyran derivatives: Crystal structures and inhibiting human cervical cancer cells evaluation. *Main Group Chemistry*, 18(3), 247-254. doi: 10.3233/MGC-180749

Liu, Z., Cao, C.-H., Rong, S.-H., Lu, S.-H., Xia, P. (2019). Synthesis, crystal structure, anti-gastric cancer activity of 2-(5-bromo-2-methylbenzyl)-5-(4-fluorophenyl)thiophene. *Main Group Chemistry*, 18(4), 357-364. doi: 10.3233/MGC-180753

Xing, S., Yang, Y., Wang, Y.-G., Ma, B., Kang, X.-W. (2019). Two new mixed-ligand Cu(II) coordination polymers: Synthesis, crystal structures and nanosizing for inhibiting spinal tumor activity evaluation. *Main Group Chemistry*, 18(3), 263-271. doi: 10.3233/MGC-180757

Yan, H., Chen, Y., Sun, T. (2019). New Ag(I) and Cu(I) coordination polymers containing N-donor ligands: Structural characterization and anti-ovarian cancer activity study. *Main Group Chemistry*, 18(4), 389-396. doi: 10.3233/MGC-180768

Xu, X.-Q., Xiong, J., Wu, Y.-L., Huang, Y.-H., Wang, Q.-L., Huang, G.-D., Wu, Y. (2019). Development of a bismuth(II)-based nanocrystalline coordination complex with mixed-donor ligands for ablation of human skin cancer cells. *Main Group Chemistry*, 18(3), 305-313. doi: 10.3233/MGC-180772

Xiao, B., Cao, Z.-Y., He, A.-Y. (2019). Synthesis, characterization and anticancer activity on human osteosarcoma cells of a pentavalent antimony complex. *Main Group Chemistry*, 18(4), 411-419. doi: 10.3233/MGC-190783

Liu, Z.-P., Yang, H.-L., Hou, R.-G., Li, E.-S., Liu, X.-J. (2019). Synthesis, crystal structure, anti-colon cancer activity of a new heterocycles compound. *Main Group Chemistry*, 18(4), 421-426. doi: 10.3233/MGC-190785

Liu, Y., Shen, L.-W., Song, M.-X. (2019). A new Ca(II) coordination polymer for effective 5-fluorouracil loading and inhibiting human retinoblastoma cells. *Main Group Chemistry*, 18(4), 427-436. doi: 10.3233/MGC-190786

Le, Q.-Q., Yu, Z. (2020). Two new α , β -unsaturated bis-enone derivatives: Anti-gastric cancer activity and docking study. *Main Group Chemistry*, 19(1), 1-7. doi: 10.3233/MGC-190810

Liu, T., Hu, Y., Gao, H., Bao, J., Jiang, L.-B. (2020). Two new coordination polymers based on the 2,4,6-tri(1H-imidazol-1-yl)-1,3,5-triazine ligand: Structures and anticancer activity on human osteogenic sarcoma cell. *Main Group Chemistry*, 19(1), 19-29. doi: 10.3233/MGC-190814

Han, H., Song, J.-B., Li, C., Zhang, Z.-F., An, G.-F., Lin, Z.-F. (2020). Synthesis, structures and anticancer activities of two coordination polymers based on 1,4-bis((1H-benzo[d]imidazol-1-yl)methyl)benzene ligand. *Main Group Chemistry*, 19(1), 31-39. doi: 10.3233/MGC-190816

He, L., Li, W.-J., An, C.-X., Shi, H., Lin, Z.-F. (2020). Two new Bi(III) and Ce(III)-containing coordination complexes: Crystal structure and anticancer activity in neuroblastoma. *Main Group Chemistry*, 19(1), 41-49. doi: 10.3233/MGC-190817

He, Z.-F., Sun, X.-H. (2020). Structural diversity and anticancer activity on human myocardial aneurysm cells of two Cu(II)-coordination polymers. *Main Group Chemistry*, 19(1), 81-89. doi: 10.3233/MGC-190828

Wu, H., Lian, J.-P. (2020). A porous Cu(II)-MOF with one-dimensional hexagonal channels for solvent-free cyanosilylation and anti-gastric cancer activity by trigger ROS induced cell apoptosis. *Main Group Chemistry*, 19(1), 91-104. doi: 10.3233/MGC-190834

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