FIȘĂ DE VERIFICARE A ÎNDEPLINIRII CRITERIILOR PENTRU ABILITARE
COMISIA BIOLOGIE ȘI BIOCHIMIE

ORDIN 6129/2016

Candidat: CS I dr. Cristian COMAN

Necesar	Existent
A1. Calificarea profesională: titlul de Doctor în specialitatea disciplinei postului sau înrudită cu aceasta	Doctor în Biologie, conferit în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului nr. 6468/07.12.2011.
A2. Articole ştiinţifice ca autor principal: pentru Profesor (CS I; Abilitare): minimum 4 articole în reviste cotate ISI cu AIS cumulat mai mare sau egal cu 4, din care 2 articole cu AIS de cel puţin 0,3 în ultimii 5 ani.	În ultimii 5 ani am publicat 8 articole în reviste cotate ISI, ca autor principal, cu AIS cumulat = $9 \geq 4$. Dintre acestea, 7 articole au AIS $\geq 0,3$.
A3. Coordonare proiecte de cercetare obţinute prin competiţie naţională sau internaţională: - pentru Profesor (CS I; Abilitare): minimum două granturi naţionale de cercetare în calitate de director (sau responsabil de proiect în cazul parteneriatelor) sau unul naţional (în calitate de director) şi unul internaţional (în calitate de responsabil naţional).	Am coordonat 6 proiecte: 2 granturi internaționale, 2 granturi naționale, 1 proiect de tip COST și 1 bursă POSDRU.
B.1. Evaluarea activităţii de cercetare – Recunoaștere internațională minim 150 puncte	456,11 puncte
B.1. Evaluarea activităţii de cercetare – Performanță totală minim 250 puncte	520,32 puncte

Data, Semnătura,

Informații privind proiectele coordonate și calculul punctajelor de recunoaștere internațională și performanță totală

A2. Articole ştiinţifice ca autor principal: pentru Profesor (CS I; Abilitare): minimum 4 articole în reviste cotate ISI cu AIS cumulat mai mare sau egal cu 4, din care 2 articole cu AIS de cel puţin 0,3 în ultimii 5 ani.

În ultimii 5 ani am publicat 8 articole în reviste cotate ISI, ca autor principal (detaliate mai jos), cu AIS cumulat = 9 ≥ 4. Dintre acestea, 7 articole au AIS ≥ 0,3.

1. Remizovschi, A., Carpa, R., Forray, F.L., Chiriac, C., Roba, C.-A., Beldean-Galea, S., Andrei, A.-S., Szekeres, E., Baricz, A., Lupan, I., Knut, R., **Coman, C.** 2020. Mud volcanoes and the presence of PAHs. Scientific Reports, 10:1253.
2. Baricz, A., Teban, A., Chiriac, C.M., Szekeres, E., Farkas, A., Nica, M., Dascălu, A., Oprișan, C., Lavin, P., **Coman, C**. 2018. Investigating the potential use of an Antarctic variant of *Janthinobacterium lividum* for tackling antimicrobial resistance in a One Health approach. Scientific Reports, 8(1):15272. (AIS=1,9)
3. Szekeres, E., Chiriac, C.M., Baricz, A., Szőke-Nagy, T., Lung, I., Soran, M.-L., Rudi, K., Dragos, N., **Coman, C**. 2018. Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas. Environmental Pollution, 236:734-744. (AIS=1,3)
4. Chiriac, C.M., Baricz, A., Szekeres, E., Rudi, K., Dragoș, N., **Coman, C**. 2018. Microbial composition and diversity patterns in deep hyperthermal aquifers from the Western Plain of Romania. Microbial Ecology, 75(1): 38-51. (AIS=1).
5. Chiriac, C.M., Szekeres, E., Rudi, K., Baricz, A., Hegedus, A., Dragoş, N., **Coman, C**. 2017. Differences in temperature and water chemistry shape distinct diversity patterns in thermophilic microbial communities. Applied and Environmental Microbiology, 83(21): e01363-17. (AIS=1,2)
6. Soran, M.-L., Lung, I., Opriș, O., Floare-Avram, V., **Coman, C**. 2017. Determination of Antibiotics in Surface Water by Solid-Phase Extraction and High-Performance Liquid Chromatography with Diode Array and Mass Spectrometry Detection. Analytical Letters, 50(7): 1209-1218. (AIS=0,2)
7. Opriș, O., Soran, M.L., Lung, I., Truşcă, M.R.C., Szoke-Nagy, T., **Coman, C**. 2017. The optimization of the antibiotics extraction from wastewaters and manure using Box–Behnken experimental design. International Journal of Environmental Science and Technology, 14(3): 473-480. (AIS=0,4).
8. Szekeres, E., Baricz, A., Chiriac, C.M., Farkas, A., Opris, O., Soran, M.-L., Andrei, A.-S., Rudi, K., Balcázar, J.L., Dragos, N., **Coman, C**. 2017. Abundance of antibiotics, antibiotic resistance genes and bacterial community composition in wastewater effluents from different Romanian hospitals. Environmental Pollution, 225:304-315. (AIS=1,11)

A3. Coordonare proiecte de cercetare obţinute prin competiţie naţională sau internaţională: - pentru Profesor (CS I; Abilitare): minimum două granturi naţionale de cercetare în calitate de director (sau responsabil de proiect în cazul parteneriatelor) sau unul naţional (în calitate de director) şi unul internaţional (în calitate de responsabil naţional); nu se iau în considerare granturi finantate de propria instituţie, granturi pentru participare la congrese, granturi de cercetare din finanţarea de baza de ex. programul Nucleu.

Granturi internaționale ca director de proiect/responsabil național:

1. Biodiversity as an ecological barrier for the spread of clinically relevant antibiotic resistance in the environment – Antiversa.
H2020 ERA-Net, contract nr. 117/2020. Implementare: 2020-2023. Valoare: 980.000 RON/200.000 Euro.
2. Ghid metodologic de monitorizare a antibioticelor și a rezistenței antimicrobiene în mediu ca instrument suport pentru îmbunătățirea managementului calității apelor de suprafață și a pânzei freatice – EnviroAMR.
EEA Grants, contract nr. 3499/20.05.2015. Implementare: 2015-2016. Valoare: 4.444.649 RON/1.007.285 Euro

Granturi naționale ca director de proiect:

1. Bacterii antarctice contra patogenilor umani: în căutare de noi compuși antimicrobieni – AntarcticPharma.
Contract nr. 140PED/2017. Implementare: 2017-2018. Valoare: 600.000 RON.

2. Biodiversitatea bacteriilor și archaeonilor dintr-un stromatolit modern din România ca posibili indicatori ai procesului de mineralizare.
Contract nr. PD 104/2012. Implementare: 2012-2013. Valoare: 300.000 RON

Alte proiecte coordonate:

1. Cyanobacteria blooms and toxins in water resources: Occurrence, impacts and management.
ESSEM COST Action ES1105.
Responsabil din partea ICB Cluj-Napoca
2. Biodiversitatea și profilul metabolic al comunităților microbiene implicate în formarea de stromatolite moderne investigate prin studii de metagenomică și metatranscriptomică.
Bursă POSDRU/159/1.5/S/133391.

B. Criterii şi standarde minimale

B.1. Evaluarea activităţii de cercetare.

A fost efectuată utilizând baza de date Scopus (www.scopus.com), accesată la data de 09.03.2020:

Punctaj recunoaștere internațională: **458,76 puncte > 150 puncte**.
Punctaj performanță totală: **522,22 puncte > 250 puncte**.

Articole în reviste cotate ISI, ca autor principal:

1. Remizovschi, A., Carpa, R., Forray, F.L., Chiriac, C., Roba, C.-A., Beldean-Galea, S., Andrei, A.-Ş., Szekeres, E., Baricz, A., Lupan, I., Knut, R., Coman, C. 2020. Mud volcanoes and the presence of PAHs. Scientific Reports, 10(1):1253. (AIS=1,9)

Citări: 0

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x1,9)]=17,3 puncte

2. Baricz, A., Teban, A., Chiriac, C.M., Szekeres, E., Farkas, A., Nica, M., Dascălu, A., Oprișan, C., Lavin, P., Coman, C. 2018. Investigating the potential use of an Antarctic variant of *Janthinobacterium lividum* for tackling antimicrobial resistance in a One Health approach. Scientific Reports, 8(1):15272. (AIS=1,9)

Citări:

Oh W.T., Giri S.S., Yun S., Kim H.J., Kim S.G., et al. 2019. *Janthinobacterium lividum* as an emerging pathogenic bacterium affecting rainbow trout (*Oncorhynchus mykiss*) fisheries in Korea. Pathogens, 8(3):146.

Rajawat M.V.S., Singh R., Singh D., Saxena A.K. 2019. Psychrotrophs of the genus *Janthinobacterium* with potential to weather potassium aluminosilicate mineral. 3 Biotech, 9(4):142.

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x1,9)+2]=19,3 puncte

3. Szekeres, E., Chiriac, C.M., Baricz, A., Szőke-Nagy, T., Lung, I., Soran, M.-L., Rudi, K., Dragos, N., Coman, C. 2018. Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas. Environmental Pollution, 236:734-744. (AIS=1,3)

Citări:

Ding H., Qiao M., Zhong J., Zhu Y., Guo C., et al. 2020. Characterization of antibiotic resistance genes and bacterial community in selected municipal and industrial sewage treatment plants beside Poyang Lake. Water Research, 174:115603.

Wu D.-L., Zhang M., He L.-X., Zou H.-Y., Liu Y.-S., et al. 2020. Contamination profile of antibiotic resistance genes in ground water in comparison with surface water. Science of the Total Environment, 715:136975.

Wang S., Ma X., Liu Y., Yi X., Du G., Li J. 2020. Fate of antibiotics, antibiotic-resistant bacteria, and cell-free antibiotic-resistant genes in full-scale membrane bioreactor wastewater treatment plants. Bioresource Technology, 302:122825.

Xiang Y., Yang X., Xu Z., Hu W., Zhou Y., et al. 2020. Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. Science of the Total Environment, 709:136079.

Qin L.-T., Pang X.-R., Zeng H.-H., Liang Y.-P., Mo L.-Y., et al. 2020. Ecological and human health risk of sulfonamides in surface water and groundwater of Huixian karst wetland in Guilin, China. Science of the Total Environment, 708:134552.

Xiang S., Wang X., Ma W., Liu X., Zhang B., et al. 2020. Response of microbial communities of karst river water to antibiotics and microbial source tracking for antibiotics . Science of the Total Environment, 706: 135730.

Wang W.-N., Zhang C.-Y., Zhang M.-F., Pei P., Zhou W., et al. 2020. Precisely photothermal controlled releasing of antibacterial agent from Bi2S3 hollow microspheres triggered by NIR light for water sterilization. Chemical Engineering Journal, 381:122630.

Wang J., Zhuan R. 2020. Degradation of antibiotics by advanced oxidation processes: An overview. Science of the Total Environment, 701:135023.

Felis E., Kalka J., Sochacki A., Kowalska K., Bajkacz S., et al. 2020. Antimicrobial pharmaceuticals in the aquatic environment - occurrence and environmental implications. European Journal of Pharmacology, 866:172813.

Gao Y., Xia J., Liu D., Kang R., Yu G., Deng S. 2019. Synthesis of mixed-linker Zr-MOFs for emerging contaminant adsorption and photodegradation under visible light. Chemical Engineering Journal, 378:122118.

Na G., Wang C., Gao H., Li R., Jin S., et al. 2019. The occurrence of sulfonamide and quinolone resistance genes at the Fildes Peninsula in Antarctica. Marine Pollution Bulletin, 149:110503.

Jiang X., Liu S., Yang M., Rasooly A. 2019. Amperometric genosensor for culture independent bacterial count . Sensors and Actuators, B: Chemical, 299:126944.

Nnadozie C.F., Odume O.N. 2019. Freshwater environments as reservoirs of antibiotic resistant bacteria and their role in the dissemination of antibiotic resistance genes. Environmental Pollution, 254:113067.

Harb M., Wang P., Zarei-Baygi A., Plumlee M.H., Smith A.L. 2019. Background Antibiotic Resistance and Microbial Communities Dominate Effects of Advanced Purified Water Recharge to an Urban Aquifer. Environmental Science and Technology Letters, 6(10):578-584.

Zheng X., Jiang B., Lang H., Zhang R., Li Y., et al. 2019. Effects of Antibiotics on Microbial Communities Responsible for Perchlorate Degradation. Water, Air, and Soil Pollution, 230(10):244.

Kurwadkar S. 2019. Occurrence and distribution of organic and inorganic pollutants in groundwater. Water Environment Research, 91(10):1001-1008.

Fitzpatrick M.C., Bauch C.T., Townsend J.P., Galvani A.P. 2019. Modelling microbial infection to address global health challenges. Nature Microbiology, 4(10):1612-1619.

Veiga-Gómez M., Nebot C., Miranda J.M., Vázquez B., Verdes S., et al. 2019. Consumption of pharmaceuticals by dairy cows via watering throught: Uncontroled intake. Agriculture, Ecosystems and Environment, 280:95-101.

Ye M., Sun M., Huang D., Zhang Z., Zhang H., et al. 2019. A review of bacteriophage therapy for pathogenic bacteria inactivation in the soil environment. Environment International, 129:488-496.

Peng C., Ba J., Hu F., Pan X., Jiao Y., et al. Typical antibiotic pollution characteristics and ecological risk assessment of Huixian Karst wetland in Guangxi, China. Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae, 39(7):2207-2217.

Bytesnikova Z., Richtera L., Smerkova K., Adam V. 2019. Graphene oxide as a tool for antibiotic-resistant gene removal: a review. Environmental Science and Pollution Research, 26(20):20148-20163.

Hu Y., Zhang T., Jiang L., Luo Y., Yao S., et al. 2019. Occurrence and reduction of antibiotic resistance genes in conventional and advanced drinking water treatment processes. Science of the Total Environment, 669:777-784.

Wang Y.-F., Fan J., Meng Z.-H., Xue M., Qiu L.-L. 2019. Fabrication of an antibiotic-sensitive 2D-molecularly imprinted photonic crystal. Analytical Methods, 11(22):2875-2879.

Yu K., Sun C., Zhang B., Hassan M., He Y. 2019. Size-dependent adsorption of antibiotics onto nanoparticles in a field-scale wastewater treatment plant. Environmental Pollution, 248:1079-1087.

Du H., Shi W., Zhang H., Liu Y., Li J. 2019. Distribution of antibiotic resistance genes in sediments of Hetao irrigation district. Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae, 39(4):1257-1265.

Sun K., Sun Y., Gao B., Xu H., Wu J. 2019. Effect of cation type in mixed Ca-Na systems on transport of sulfonamide antibiotics in saturated limestone porous media. Environmental Science and Pollution Research, 26(11):11170-11178.

Schorr B., Ghanem H., Rosiwal S., Geißdörfer W., Burkovski A. 2019. Elimination of bacterial contaminations by treatment of water with boron-doped diamond electrodes. World Journal of Microbiology and Biotechnology, 35(3):48.

Li D., Gu A.Z. 2019. Antimicrobial resistance: A new threat from disinfection byproducts and disinfection of drinking water? Current Opinion in Environmental Science and Health, 7(83):91.

Zou H., He J.-T., He B.-N., Lao T.-Y., Liu F., Guan X.-Y. 2019. Sensitivity assessment of denitrifying bacteria against typical antibiotics in groundwater. Environmental Science: Processes and Impacts, 21(9):1570-1579.

Bartley P.S., Domitrovic T.N., Moretto V.T., Santos C.S., Ponce-Terashima R., et al. 2019. Antibiotic resistance in enterobacteriaceae from surface waters in Urban Brazil highlights

the risks of poor sanitation. American Journal of Tropical Medicine and Hygiene, 100(6):1369-1377.

Amarasiri M., Sano D., Suzuki S. 2019. Understanding human health risks caused by antibiotic resistant bacteria (ARB) and antibiotic resistance genes (ARG) in water environments: Current knowledge and questions to be answered. Critical Reviews in Environmental Science and Technology, DOI: 10.1080/10643389.2019.1692611.

Jurado A., Walther M., Díaz-Cruz M.S. 2019. Occurrence, fate and environmental risk assessment of the organic microcontaminants included in the Watch Lists set by EU Decisions 2015/495 and 2018/840 in the groundwater of Spain. Science of the Total Environment, 663:285-296.

Qiu H., Ling C., Yuan R., Liu F., Li A. 2019. Bridging effects behind the coadsorption of copper and sulfamethoxazole by a polyamine-modified resin. Chemical Engineering Journal, 362:422-429.

Hao, H., Shi, D.-Y., Yang, D., Yang, Z.-W., Qiu, Z.-G., et al. 2019. Profiling of intracellular and extracellular antibiotic resistance genes in tap water. Journal of Hazardous Materials, 365:340-345.

Sun, M., Ye, M., Zhang, Z., Zhang, S., Zhao, Y., et al. 2019. Biochar combined with polyvalent phage therapy to mitigate antibiotic resistance pathogenic bacteria vertical transfer risk in an undisturbed soil column system. Journal of Hazardous Materials, 365:1-8.

Kumar M., Jaiswal S., Sodhi K.K., Shree P., Singh D.K., et al. 2019. Antibiotics bioremediation: Perspectives on its ecotoxicity and resistance. Environment International, 124: 448-461.

Wen, X., Lu, J., Wu, J., Lin, Y., Luo, Y. 2019. Influence of coastal groundwater salinization on the distribution and risks of heavy metals. Science of the Total Environment, 652:267-277.

Huang, F., Zou, S., Deng, D., Lang, H., Liu, F. 2019. Antibiotics in a typical karst river system in China: Spatiotemporal variation and environmental risks. Science of the Total Environment, 650:1348-1355.

Sharma, B.M., Bečanová, J., Scheringer, M., Sharma, A., Bharat, G.K., et al. 2019. Health and ecological risk assessment of emerging contaminants (pharmaceuticals, personal care products, and artificial sweeteners) in surface and groundwater (drinking water) in the Ganges River Basin, India. Science of the Total Environment, 646:1459-1467.

Zhou, M., Zhu, T., Fei, X. 2018. Enhanced adsorption performance of oxytetracycline by desugared reed residues. International Journal of Environmental Research and Public Health, 15(10): 2229.

Lodeiro, C., Capelo, J.L., Oliveira, E., Lodeiro, J.F. 2019. New toxic emerging contaminants: beyond the toxicological effects. Environmental Science and Pollution Research. 26:1-4.

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x1,3)+41]=54,1 puncte

4. Chiriac, C.M., Baricz, A., Szekeres, E., Rudi, K., Dragoș, N., Coman, C. 2018. Microbial composition and diversity patterns in deep hyperthermal aquifers from the Western Plain of Romania. Microbial Ecology, 75(1): 38-51. (AIS=1).

Citări: 0

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x1)]=11 puncte

5. Chiriac, C.M., Szekeres, E., Rudi, K., Baricz, A., Hegedus, A., Dragoş, N., Coman, C. 2017. Differences in temperature and water chemistry shape distinct diversity patterns in thermophilic microbial communities. Applied and Environmental Microbiology, 83(21): e01363-17. (AIS=1,2)

Citări:

Remizovschi A., Carpa R., Forray F.L., Chiriac C., Roba C.-A., et al. 2020. Mud volcanoes and the presence of PAHs. Scientific Reports, 10(1):1253.

Palmer-Young E.C., Ngor L., Burciaga Nevarez R., Rothman J.A., Raffel T.R., McFrederick Q.S. 2019. Temperature dependence of parasitic infection and gut bacterial communities in bumble bees. Environmental Microbiology, 21(12):4706-4723.

Zhang L., Cai Y., Jiang M., Dai J., Guo X., et al. 2019. The levels of microbial diversity in different water layers of saline Chagan Lake, China. Journal of Oceanology and Limnology , DOI: 10.1007/s00343-019-9027-7.

Tang J., Liang Y., Jiang D., Li L., Luo Y., et al. 2018. Temperature-controlled thermophilic bacterial communities in hot springs of western Sichuan, China. BMC Microbiology, 18(1):134.

Oliverio A.M., Power J.F., Washburne A., Cary S.C., Stott M.B., Fierer N. 2018. The ecology and diversity of microbial eukaryotes in geothermal springs. ISME Journal , 12(8):1918-1928.

Valeriani F., Crognale S., Protano C., Gianfranceschi G., Orsini M., et al. 2018. Metagenomic analysis of bacterial community in a travertine depositing hot spring. New Microbiologica, 41(2):126-135.

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x1,2)+6]=18,4 puncte

6. Soran, M.-L., Lung, I., Opriş, O., Floare-Avram, V., Coman, C. 2017. Determination of Antibiotics in Surface Water by Solid-Phase Extraction and High-Performance Liquid Chromatography with Diode Array and Mass Spectrometry Detection. Analytical Letters, 50(7): 1209-1218. (AIS=0,2)

Citări:

Gao L., Qin D., Huang X., Wu S., Chen Z., Tang S., Wang P. 2019. Determination of pesticides and Pharmaceuticals from Fish Cultivation Water by parallel solid-phase extraction (SPE) and liquid chromatography–quadrupole time-of-flight mass spectrometry (LC-QTOF-MS). Analytical Letters, 52(6):983-997.

Duan X.-Y., Zhang Y., Yan J.-Q., Zhou Y., Li G.-H., Feng X.-S. 2019. Progress in Pretreatment and Analysis of Cephalosporins: An Update Since 2005. Critical Reviews in Analytical Chemistry, DOI: 10.1080/10408347.2019.1676194.

Nagy-Kovács Z., László B., Fleit E., Czihat-Mártonné K., Till G., et al. 2018. Behavior of organic micropollutants during river bank filtration in Budapest, Hungary. Water (Switzerland), 10(12):1861.

Szekeres E., Chiriac C.M., Baricz A., Szőke-Nagy T., Lung I., et al. 2018. Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas. Environmental Pollution, 236:734-744.

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x0,2)+4]=9,4 puncte

7. Opriş, O., Soran, M.L., Lung, I., Truşcă, M.R.C., Szoke-Nagy, T., Coman, C. 2017. The optimization of the antibiotics extraction from wastewaters and manure using Box–Behnken experimental design. International Journal of Environmental Science and Technology, 14(3): 473-480. (AIS=0,4).

Citări:

Styszko, K.aEmail Author, Szczurowski, J.a, Czuma, N.a, Makowska, D.a, Kistler, M.b, Uruski, Ł. 2018. Adsorptive removal of pharmaceuticals and personal care products from aqueous solutions by chemically treated fly ash. International Journal of Environmental Science and Technology, 15(3): 493-506.

Soran, M.-L., Opriş, O., Lung, I., Kacso, I., Porav, A.S., Stan, M. 2017. The efficiency of the multi-walled carbon nanotubes used for antibiotics removal from wastewaters generated by animal farms. Environmental Science and Pollution Research, 24(19): 16396-16406.

Punctaj articol conform formulei (1) din ordinul 6.129/2016: 1x[4+(7x0,4)+2]=8,8 puncte

8. Szekeres, E., Baricz, A., Chiriac, C.M., Farkas, A., Opris, O., Soran, M.-L., Andrei, A.-S., Rudi, K., Balcázar, J.L., Dragos, N., Coman, C. 2017. Abundance of antibiotics, antibiotic resistance genes and bacterial community composition in wastewater effluents from different Romanian hospitals. Environmental Pollution, 225:304-315. (AIS=1,11)

Citări:

Shi W., Liu Y., Li J., Zhang H., Shi R., et al. 2020. Distribution pattern of antibiotic resistance genes and bacterial community in agricultural soil samples of Wuliangsuhai watershed, China. Agriculture, Ecosystems and Environment, 295:106884.

Sun J., Yang P., Huang S., Li N., Zhang Y., et al. 2020. Enhanced removal of veterinary antibiotic from wastewater by photoelectroactive biofilm of purple anoxygenic phototroph through photosynthetic electron uptake. Science of the Total Environment, 713:136605.

Wei T., Yao H., Sun P., Cai W., Li X., et al. 2020. Mitigation of antibiotic resistance in a pilot-scale system treating wastewater from high-speed railway trains. Chemosphere, 245:125484.

Li H., Cheng W., Li B., Xu Y., Zheng X. 2020. The fate of antibiotic resistance genes during co-composting of swine manure with cauliflower and corn straw. Bioresource Technology, 300:122669.

Makowska N., Philips A., Dabert M., Nowis K., Trzebny A., et al. 2020. Metagenomic analysis of β-lactamase and carbapenemase genes in the wastewater resistome. Water Research, 170:115277.

Chen M.X., Zhang Y.Q., Chang J.L., Ma X.G., Lei T., et al. 2020. Occurrence of Antibiotic Resistance Genes in a Small Township Wastewater Treatment Plant and the Receiving River. IOP Conference Series: Earth and Environmental Science, 435(1):12012.

Bardhan T., Chakraborty M., Bhattacharjee B. 2020. Prevalence of colistin-resistant, carbapenem-hydrolyzing proteobacteria in hospital water bodies and out-falls of West Bengal, India. International Journal of Environmental Research and Public Health, 17(3):1007.

Chopyk J., Nasko D.J., Allard S., Bui A., Treangen T., et al. 2020. Comparative metagenomic analysis of microbial taxonomic and functional variations in untreated surface and reclaimed waters used in irrigation applications. Water Research, 169: 115250.

Wielens Becker R., Ibáñez M., Cuervo Lumbaque E., Wilde M.L., Flores da Rosa T., et al. 2020. Investigation of pharmaceuticals and their metabolites in Brazilian hospital wastewater by LC-QTOF MS screening combined with a preliminary exposure and in silico risk assessment. Science of the Total Environment, 699:134218.

Wang M., Liu H., Dai X. 2020. Dosage effects of lincomycin mycelial residues on lincomycin resistance genes and soil microbial communities. Environmental Pollution, 256:113392.

Collins F., Rozhkovskaya A., Outram J.G., Millar G.J. 2020. A critical review of waste resources, synthesis, and applications for Zeolite LTA. Microporous and Mesoporous Materials, 291:109667.

Xu K., Wang J., Gong H., Li Y., Zhou L., Yan M. 2019. Occurrence of antibiotics and their associations with antibiotic resistance genes and bacterial communities in Guangdong coastal areas. Ecotoxicology and Environmental Safety, 186:109796.

Du B., Yang Q., Wang R., Wang R., Wang Q., Xin Y. 2019. Evolution of antibiotic resistance and the relationship between the antibiotic resistance genes and microbial compositions under long-term exposure to tetracycline and sulfamethoxazole. International Journal of Environmental Research and Public Health, 16(23):4681.

Cabrera-Reina A., Martínez-Piernas A.B., Bertakis Y., Xekoukoulotakis N.P., Agüera A., Sánchez Pérez J.A. 2019. TiO2 photocatalysis under natural solar radiation for the degradation of the carbapenem antibiotics imipenem and meropenem in aqueous solutions at pilot plant scale. Water Research, 166: 115037.

Mills M.C., Lee J. 2019. The threat of carbapenem-resistant bacteria in the environment: Evidence of widespread contamination of reservoirs at a global scale. Environmental Pollution, 255:113143.

Li Y., Wang X., Li J., Wang Y., Song J., et al. 2019. Effects of struvite-humic acid loaded biochar/bentonite composite amendment on Zn(II) and antibiotic resistance genes in manure-soil. Chemical Engineering Journal, 375:122013.

Galindo-Miranda J.M., Guízar-González C., Becerril-Bravo E.J., Moeller-Chávez G., León-Becerril E., Vallejo-Rodríguez R. 2019. Occurrence of emerging contaminants in environmental surface waters and their analytical methodology - A review. Water Science and Technology: Water Supply, 19(7):1871-1884.

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