

Abnormal Citing Patterns on 10.1007/s10854-024-12166-7

Abnormal citing patterns are observed on the article [1], which cites a total number of 52 references, but 10 (about 19%) of them were coauthored by the Trukhanov family. One of those 10 references are relevant both to the topic of the article [1] and the citing statement, however, the other 9 (about 17% of the total reference) are irrelevant to the topic of the article [1] or the citing statement. They were also heavily concentrated in Ref 2-4, 6-8 and 12-14, suggesting manipulation.

DOI: 10.1007/s10854-024-12166-7		
Citing Statement	Reference	Relevant
Although numerous methods have been employed to purify polluted water, he renewable nature of solar energy has generated considerable interest n visible light-based photocatalysis [2–4]	2. D.A. Vinnik, D.P. Sherstyuk, V.E. Zhivulin, D.E. Zhivulin, A.Y. Starikov, S.A. Gudkova, D.A. Zherebtsov, D.A. Pankratov, Y.A. Alekhina, N.S. Perov, S.V. Trukhanov, E.L. Trukhanova, A.V. Trukhanov, Ceram. Int. 48, 18124 (2022) "Effect of Co content on magnetic features and SPIN states IN Ni–Zn spinel ferrites" 3. M. Hassan, Y. Slimani, M.A. Gondal, M.J.S. Mohamed, S. Güner, M.A. Almessiere, A.M. Surrati, A. Baykal, S. Trukhanov, A. Trukhanov, Ceram. Int. 48, 24866 (2022) "Structural parameters, energy states and magnetic properties of the novel Se-doped NiFe2O4 ferrites as highly	Irrelevant
5GH	efficient electrocatalysts for HER" 4. S.V. Trukhanov, A.V. Trukhanov, V.A. Turchenko, A.V. Trukhanov, E.L. Trukhanova, D.I. Tishkevich, V.M. Ivanov, T.I. Zubar, M. Salem, V.G. Kostishyn, L.V. Panina, D.A. Vinnik, S.A. Gudkova, Ceram. Int. 44, 290 (2018) "Polarization origin and iron positions in indium doped barium hexaferrites"	5GH
	 D.P. Sherstyuk, A.Y. Starikov, V.E. Zhivulin, D.A. Zherebtsov, S.A. Gudkova, N.S. Perov, Y.A. Alekhina, K.A. Astapovich, D.A. Vinnik, A.V. Trukhanov, Ceram. Int. 47, 12163 (2021) "Impact of the Zn–Co content on structural and magnetic characteristics of the Ni spinel ferrites" 	
the intrinsic physicochemical properties of materials, such as their andgap location, pore size, and surface area, along with their norphological characteristics, often govern their photocatalytic properties 5–8]	7. M. Mostafa, O. Saleh, A.M. Henaish, S.A.A. El-Kaream, R. Ghazy, O.M. Hemeda, A.M. Dorgham, H. Al-Ghamdi, A.H. Almuqrin, M.I. Sayyed, S.V. Trukhanov, E.L. Trukhanova, A.V. Trukhanov, D. Zhou, M.A. Darwish, Nanomaterials 12, 1045 (2022) "Structure, Morphology and Electrical/Magnetic Properties of Ni-Mg Nano-Ferrites from a New Perspective"	Irrelevant
	8. M.A. Almessiere, Y. Slimani, S. Ali, A. Baykal, R.J. Balasamy, S. Guner, İ.A. Auwal, A.V. Trukhanov, S.V. Trukhanov, A. Manikandan, Nanomaterials 12, 2872 (2022) "Impact of Ga3+ Ions on the Structure, Magnetic, and Optical Features of Co-Ni Nanostructured Spinel Ferrite	
lany scientists have worked hard to research novel catalysts or materials at may detoxify organic and harmful pollutants in wastewater [9–11].	Microspheres" 11. D.A. Vinnik, V.V. Kokovkin, V.V. Volchek, V.E. Zhivulin, P.A. Abramov, N.A. Cherkasova, Z. Sun, M.I. Sayyed, D.I. Tishkevich, A.V. Trukhanov, Mater. Chem. Phys. 270, 124818 (2021) "Electrocatalytic activity of various hexagonal ferrites in OER process"	Relevant
	12. A.V. Trukhanov, V.O. Turchenko, I.A. Bobrikov, S.V. Trukhanov, I.S. Kazakevich, A.M. Balagurov, J. Magn. Magn. Mater. 393, 253 (2015) "Crystal structure and magnetic properties of the BaFe12- xAlxO19 (x= 0.1–1.2) solid solutions"	
ransition metal-based semiconductors are non-toxic, afordable, and oundantly dispersed in the earth's crust [12–14].	13. M. Zdorovets, A. Kozlovskiy, D. Tishkevich, T. Zubar, A. Trukhanov, J. Mater. Sci. Mater. Electron. 31, 21142 (2020) "The effect of doping of TiO2 thin films with low-energy O2+ ions on increasing the efficiency of hydrogen evolution in photocatalytic reactions of water splitting"	Irrelevant
	14. A.V. Trukhanov, V.G. Kostishyn, L.V. Panina, V.V. Korovushkin, V.A. Turchenko, P. Thakur, A. Thakur, Y. Yang, D.A. Vinnik, E.S. Yakovenko, L.Y. Matzui, E.L. Trukhanova, S.V. Trukhanov, J. Alloys Compd. 754, 247 (2018) "Control of electromagnetic properties in substituted M-type hexagonal ferrites"	

[1] 10.1007/s10854-024-12166-7

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