

	НЭО НИКС
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	Гр.№1 ЯБ

№ ПП	авторский коллектив от ЛНФ ОИЯИ	сторонние соавторы с указанием страны и названием института	название публикации	библиографическая ссылка на публикацию	электронная ссылка на статью	Impact Factor
1	V.V.Sikolenko	N.Matsubara, E.Nocerino, O.Forslund, M.Mansson, KTH Stockholm, Sweden, K.Kamazawa, J.Sugizama, CROSS Tokai, Japan, L.Keller, V.Pomjakushin, PSI Switzerland	Neutron Powder diffraction study of NaMn <sub>2</sub> O <sub>4</sub> and Li <sub>0.92</sub> Mn <sub>2</sub> O <sub>4</sub> : Insights on spin-charge-orbital ordering	Physical Review Research 2, 043143 (2020)	<a href="https://doi.org/10.1103/PhysRevResearch.2.043143">DOI: 10.1103/PhysRevResearch.2.043143</a>	
2	T.N. Verzhinina	A.O. Boev, D.O. Poletaev, A.I.Kartamyshv, M.V. Boeva	Influence of the Mo <sub>10</sub> Ni <sub>3</sub> C <sub>3</sub> B phase on the hardness and fracture toughness of Mo-Ni-C-B cermet: experimental and theoretical study	Lett. Mater., 2020, 10(4) 387-391	<a href="https://doi.org/10.22226/2410-3535-2020-4-387-391">DOI: 10.22226/2410-3535-2020-4-387-391</a>	0.776
3	T.N. Verzhinina	M. V. Zhidkov, O. A. Golosova, S. I. Kudryashov, A. A. Ionin	Surface texturing of steel by femtosecond laser and accompanying structure/phase transformations	Optics & Laser Technology, 2020, Vol.131, 106370	DOI: 10.1016/j.optlastec.2020.106370	3.233
4	Vasin R.N. Balagurov A.M. Bobrikov I.A.	Shuitcev A. Li L. Tong Y.X. (Harbin Engineering University, China)	Thermal expansion of martensite in Ti <sub>29</sub> .7Ni <sub>50</sub> .3Hf <sub>20</sub> shape memory alloy	Intermetallics. 2020. V. 125. 106889	<a href="https://doi.org/10.1016/j.intermet.2020.106889">https://doi.org/10.1016/j.intermet.2020.106889</a>	3.398
5	Soloviov D. Rogachev A. Rulev M. Gordeliy V.	Zabelskii D., Alekseev A., Kovalev K., Rankovic V., Balandin T., Bratanov D., Savelyeva E., Podolyak E., Volkov D., Vaganova S., Astashkin R., Chizhov I., Yutin N., Popov A., Eria-Oliveira A. S., Rokitskaya T., Mager T., Antonenko Y., Rosselli R., Armeev G., Shaitan K., Vivaudou M., Buldt G., Rodriguez-Valera F., Kirpichnikov M., Moser T., Offenhausser A., Willbold D., Koonin E., Bamberg E.	Viral rhodopsins 1 are an unique family of light-gated cation channels	Nature Communications 2020 Vol. 11 Issue 1 Pages 5707	<a href="https://doi.org/10.1038/s41467-020-19457-7">https://doi.org/10.1038/s41467-020-19457-7</a>	11.88
6	Soloviov, D. Beskrovnyy, A.	Rečko K., Satula D., Waliszewski J., Biernacka M., Orzechowska M., Kalska-Szostko B., Miaskowski A., Basa A., Szymański K.	Magnetism of Surface-Modified and Gallium-Doped Magnetite Particles	Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques 2020 Vol. 14 Issue S1 Pages S85-S92	<a href="https://doi.org/10.1134/s102745102007040x">https://doi.org/10.1134/s102745102007040x</a>	0.359
7	Soloviov, D. V. Gordeliy, V. I.	Maliar N., Okhrimenko I. S., Petrovskaya, L. E., Alekseev A. A., Kovalev K. V., Popov P. A., Rokitskaya T. I., Antonenko Y. N., Zabelskii D. V., Dolgikh D. A., Kirpichnikov M. P.	Novel pH-sensitive microbial rhodopsin from Sphingomonas Paucimobilis	Dokl Biochem Biophys 2020 Vol. 495 Issue 1 Pages 342-346	<a href="https://doi.org/10.1134/10.1134/S1607672920060162">https://doi.org/10.1134/10.1134/S1607672920060162</a>	0.672
8	Ju.Taran	A.Basti, F.Bedeschi, A.Bryzgalin, J.Budagov, P.Fabbricatore, E.Harms, S.Illarionov, S.Nagaitsev, E.Pekar, V.Rybakov, B.Sabirov, Ju.Samarokov, W.Soyars, Ju.Taran, G.Trubnikov	Upgrade of the ILC Cryomodule	Physics of Particles and Nuclei, Vol. 51, Issue 6, p. 1075-1085, 2020	<a href="http://link.springer.com/article/10.1134/S1063779620060027">http://link.springer.com/article/10.1134/S1063779620060027</a>	
9	Balasoïu M.	C. G. Chilom, A. Balan, N. Sandu (Univ Bucharest, Fac Phys), S. Stolyar ( Fed Res Ctr KSC SB RAS, Krasnoyarsk), O. Orelovich (FLNR)	Exploring the Conformation and Thermal Stability of Human Serum Albumin Corona of Ferrihydrate Nanoparticles	International Journal of Molecular Sciences 21(24) 9734 (2020)	<a href="https://doi.org/10.3390/jms21249734">https://doi.org/10.3390/jms21249734</a>	4.556
10	Balasoïu M. Rogachev A.	C. G. Chilom, N. Sandu (Univ Bucharest, Fac Phys), S. Stolyar ( Fed Res Ctr KSC SB RAS, Krasnoyarsk)	Ferrihydrate nanoparticles insights: Structural characterization, lactate dehydrogenase binding and virtual screening assay	International Journal of Biological Macromolecules 164 (2020) 3559–3567	<a href="https://doi.org/10.1016/j.ijbiomac.2020.08.242">https://doi.org/10.1016/j.ijbiomac.2020.08.242</a>	5.162
11	Balasoïu M.	Lacramioara Oprica, Maria Andries, Liviu Sacarescu, Larisa Popescu, Daniela Pricop, Dorina Creanga	Citrate-silver nanoparticles and their impact on some environmental beneficial fungi	Saudi Journal of Biological Sciences 27(12), (2020) 3365-3375	<a href="https://doi.org/10.1016/j.sjbs.2020.09.004">https://doi.org/10.1016/j.sjbs.2020.09.004</a>	2.8
12	Balasoïu M. Ivankov O. Balasoïu-Gaina A.-M.	Daniela Buzatu, Cristina Stan (Univ Politehn Bucuresti, Dept Phys, Bucharest), Sergei Lysenko, Svetlana Astaf'eva (Russian Acad Sci, Ural Branch, Perm Fed Res Ctr, Inst Tech Chem, Perm)	Dimensionality of CoFe <sub>2</sub> O <sub>4</sub> /LA/SDS/H <sub>2</sub> O ferrofluid sample with different dilution from SANS curves modelling	U.P.B. Sci. Bull., Series A 82(4) (2020) 249-258		0.5

13	V. A. Turchenko	A.V. Trukhanov, K.A. Astapovich (SSPA "Scientific and Practical Materials Research Centre of NAS of Belarus"), M.A. Almessiere, Y. Slimani, A. Baykal (Imam Abdulrahman Bin Faisal University, Saudi Arabia), A.S.B. Sombra (Federal University of Ceara, Brazil), Di Zhou (Xi'an Jiaotong University, China), R.B. Jotania (Gujarat University, India), C. Singh, T.I. Zubar, D.I. Tishkevich, S.V. Trukhanov (South Ural State University, Russia)	Influence of the dysprosium ions on structure, magnetic characteristics and origin of the reflection losses in the Ni-Co spinels	Journal of Alloys and Compounds 841 (2020) 155667(1-11).	<a href="https://doi.org/10.1016/j.jallcom.2020.155667">https://doi.org/10.1016/j.jallcom.2020.155667</a>	4.65
14	Rogachev A.	Molchanov V.S., Efremova M.A., Orekhov A.S., Arkharova N.A., Philippova O.E.	Soft nanocomposites based on nanoclay particles and mixed wormlike micelles of surfactants	Journal of Molecular Liquids, 2020, 113684	<a href="https://doi.org/10.1016/j.molliq.2020.113684">https://doi.org/10.1016/j.molliq.2020.113684</a>	5.065
15	Rogachev A., Gordeliy V.	Egor Marin, Aleksandra Luginina, Anastasiia Gusach, Kirill Kovalev, Sergey Bukhdruker, Polina Khorn, Vitaly Polovinkin, Elizaveta Lyapina, Valentin Gordeliy, Alexey Mishin, Vadim Cherezov, Valentin Borshechskiy	Small-wedge synchrotron and serial XFEL datasets for Cysteinyll leukotriene GPCRs	Scientific Data volume 7, Article number: 388 (2020)	<a href="https://doi.org/10.1038/s41597-020-00729-2">https://doi.org/10.1038/s41597-020-00729-2</a>	6.46
16	Kichanov S.E.	Pakhnevich A.V., Zaytseva L.V., Samylina O.S.	The Use of Modern Physical Methods of Instrumental Analytics in the Study of Stromatolites	Paleontol. J. 54, 936–945 (2020)	<a href="https://doi.org/10.1134/S0031030120080122">https://doi.org/10.1134/S0031030120080122</a>	
17	Nazarov K.M., Muhametuly B., Kichanov S.E., Kozlenko D.P., Lukin E.V.	Kenzhin E.A., Shaimerdenov A.A.	New neutron radiography and tomography facility TITAN at the WWR-K reactor	NIMA, 982, 164572 (2020)	<a href="https://doi.org/10.1016/j.nima.2020.164572">https://doi.org/10.1016/j.nima.2020.164572</a>	
18	Kichanov S.E., Dyussembekova S., Kozlenko D.P., Belozerova N.M., Savenko B.N.	Wasicki J., Nawrocik W.	A high pressure effect on the vibrational spectra of ranitidine hydrochloride	Journal of Molecular Structure, 1218, 128515 (2020)	<a href="https://doi.org/10.1016/j.molstruc.2020.128515">https://doi.org/10.1016/j.molstruc.2020.128515</a>	
19	Zhakotov V.D.	D. I. Devyaterikov, V. V. Proglyado (Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia); E. A. Stepanova (Ural Federal University, Ekaterinburg, Russia); V. O. Vas'kovsky, E. A. Kravtsov, M. V. Makarova, V. V. Ustinov (Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia; Ural Federal University, Ekaterinburg, Russia)	Magnetic Properties of Dy Thin Films Grown on Al <sub>2</sub> O <sub>3</sub> Substrates with Different Crystallographic Orientations	Physics of Metals and Metallography, Vol. 121, No. 12, pp. 1127–1131 (2020)	<a href="https://doi.org/10.1134/S0031918X20120042">DOI: 10.1134/S0031918X20120042</a>	1.064
20	Bobrikov, I. A	Khishgidemberel, I., Uyanga, E., Hirazawa, H., Enkhmend, B., Bobrikov, I. A., Sangaa, D., & Kiseleva, T.	Structural, infrared and magnetic properties of MgAlFe <sub>2-x</sub> O <sub>4</sub> compounds: Effect of the preparation methods and Al substitution.	Solid State Sciences, 109, 106400 (2020).	<a href="https://doi.org/10.1016/j.solidstatesciences.2020.106400">10.1016/j.solidstatesciences.2020.106400</a>	2.434
21	A.M.Balagurov, I.A. Bobrikov, S.V. Sumnikov	A.M.Balagurov, A.A. Bosak, I.S. Golovin,	In-grain phase separation and structural ordering in Fe-Ga alloys seen from reciprocal space	Intermetallics 128,107016 (1-4) (2021)	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0966979520309201">https://www.sciencedirect.com/science/article/abs/pii/S0966979520309201</a>	3.398
22	Anatoly Balagurov, Ivan Bobrikov	Meng Sun, Xianping Wang, Wen Wen, Igor S. Golovin, Qianfeng Fang	High damping in Fe-Ga-La alloys: Phenomenological model for magneto-mechanical hysteresis damping and experiment	Journal of Materials Science & Technology, 72, 69-80 (2021)	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1005030220308215">https://www.sciencedirect.com/science/article/abs/pii/S1005030220308215</a>	6.155
23	Ivan Bobrikov	Jianbang Zhou, Yingyuan Chen, Chunyan Jiang, Bojana Miličević, Maxim S. Molokeev, Mikhail G. Brik, Jing Yan, Junhao Li, Mingmei Wu	High moisture resistance of an efficient Mn <sup>4+</sup> - activated red phosphor Cs <sub>2</sub> NbOF <sub>5</sub> :Mn <sup>4+</sup> for WLEDs	Chemical Engineering Journal 405, 126678 (2021)	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1385894720328060">https://www.sciencedirect.com/science/article/abs/pii/S1385894720328060</a>	10.6
24	N. Yushin, O. Chaligava, I. Zimicovscaia, K.Vergel, D. Grozdov.		Mosses as Bioindicators of Heavy Metal Air Pollution in the Lockdown Period Adopted to Cope with the COVID-19 Pandemic	Atmosphere 2020, 11, 1194,	DOI: 10.1007/s00244-020-00788-x	2.397
25	O. Chaligava, W. M. Badawy, M.V. Frontasyeva, I. Zimicovscaia, A. Kvilidze, K. Vergel, N. Yushin.	Sh. Shetekauri, T. Shetekauri,	Characterization of trace elements in atmospheric deposition studied by moss biomonitoring in Georgia.	Archives of Environmental Contamination and Toxicology. 2020.	DOI: 10.1007/s00244-020-00788-x	2.4

26	A. Svozilíková Krakovská, V. Svozilík, I. Zinicovscaia, K. Vergel, P. Jančík.		Analysis of Spatial Data from Moss Biomonitoring in Czech-Polish Border.	Atmosphere, 2020, 11(11), 1237	<a href="https://doi.org/10.3390/atmos11111237">https://doi.org/10.3390/atmos11111237</a>	2.397
27	I. Zinicovscaia, N. Yushin, D. Grozdov	I. Humelnicu, D. Humelnicu, T. Mitina	Removal of chromium(III) ions from aqueous solutions using different types of hydroxyapatites.	Desalination and Water Treatment 204 (2020) 297–305	doi: 10.5004/dwt.2020.26267	0.854
28	D. Abdusamadzoda, I. Zinicovscaia.	D. A. Abdushukurov, O. G. Dului,	Assessment of the Heavy Metals Pollution of Soil and Sediment in Zarafshon Valley.	Toxics, 2020, 8, 113;	doi:10.3390/toxics8040113	3.271
29	I. Zinicovscaia, D. Grozdov.	Gh. Duca	Biosorption of Metal Ions by <i>Spirulina plantensis</i> Microalga.	Russian Journal of General Chemistry, 2020, 90(13), pp. 1–6.	DOI: 10.1134/S1070363220130034	0.716
30	I. Zinicovscaia, N. Yushin, D. Grozdov, K. Vergel, T. Ostrovnyaya,	E. Rodlovskaya	Copper removal from complex copper containing effluents by waste biomass of <i>Saccharomyces</i> <i>cerevisiae</i> .	Ecological Chemistry and Engineering S, 2020;27(3):415- 435	DOI: 10.2478/eces-2020-0027	1.488
31	A. Sumbaev, V. Kobets, V. Shvetsov	N. Dikansky, P. Logatchov, ИЯФ СО РАН, РФ	LUE-200 Accelerator – A Photo-neutron Generator For The Pulsed Neutron Source "IREN"	Journal of Instrumentation, Volume 15, Issue 11, pp. T11006 (2020).	<a href="https://iopscience.iop.org/article/10.1088/1748-0221/15/11/T11006/pdf">https://iopscience.iop.org/article/10.1088/1748-0221/15/11/T11006/pdf</a>	1.442
32	P. Nekhoroshkov, I. Zinicovscaia, N. Yushin, M. Frontasyeva	J. Bezuidenhout, Stellenbosch University, South Africa	Accumulation Features of Micro and Macroelements in Indigenous and Alien Molluscs in Saldanha Bay, South Africa	Ecological Chemistry and Engineering S. 2020 Dec 1;27(4):495-508.	DOI: 10.2478/eces-2020-0030	1.488
33	A.S. Doroshkevich, M. Kulik, A.A. Tatarinova	D.R. Belichko, T.E. Konstantinova, A.V. Maletsky, G.K. Volkova, M.V. Lakusta, (Donetsk; Institute for Physics and Engineering named after O.O. Galkin, Kiev, Ukraine), D. Mardare, C. Mita, N. Cornei (Alexandru IoanCuza University of Iasi, Faculty of Physics, Romania)	Influence of hafnium oxide on the structure and properties of powders and ceramics of the YSZ–HfO <sub>2</sub> composition	Ceramics International Pub Date : 2020-09-17 ,	DOI: 10.1016/j.ceramint.2020.09.151	3.830
34	A. Islamov, A. Doroshkevich	T. Vasilenko, Kirillov - St. Petersburg Mining University, 199106, St. Petersburg, Russia	Investigation of Tectonically Disturbed Zones of Coal Seams of the Kuznetsk Coal Basin Using SANS	Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques volume 14, pagesS235–S241(2020)	DOI: 10.1134/S1027451020070496	0.359
35	Bulavin M.V.	U. Kruchonak, S. Abou El-Azm, G. Shelkov, M. Gostkin, A.Guskov, A. Sheremetyeva, N.Zamiatin, A. Zhemchugov	Investigation of the radiation hardness of GaAs:Cr semiconductor detectors irradiated with fast neutrons at the reactor IBR-2	Journal of Physics Conference Series, ICPPA 2020, 1690 (2020) 012042, DOI: 10.1088/1742- 6596/1690/1/012042	<a href="https://www.researchgate.net/publication/347802680_Investigation_of_the_radiation_hardness_of_GaAsCr_semiconductor_detectors_irradiated_with_fast_neutrons_at_the_reactor_IBR-2">https://www.researchgate.net/publication/347802680_Investigation_of_the_radiation_hardness_of_GaAsCr_semiconductor_detectors_irradiated_with_fast_neutrons_at_the_reactor_IBR-2</a>	0.54
36	M.V. Bulavin, A. Yskakov, K.A. Mukhin		Measurement of the concentration of radiolytic hydrogen in the chamber of the pelletized cryogenic moderator of the IBR-2 reactor using gas chromatography	RAD Conference Proceedings, vol. 4, pp. 81–84, 2020 ISSN 2466-4626 (online), DOI: 10.21175/RadProc.2020.17.	<a href="#">RAD Conference Proceedings, vol. 4, pp. 81–84, 2020 ISSN 2466-4626 (online), DOI: 10.21175/RadProc.2020.17.</a>	
37	M.V. Rzyanin, E.P. Shabalin		On the Issue of Stability and Safety of the Superbooster, a Pulsed Neutron Source	Physics of Atomic Nuclei, 2020, v. 83, N. 8, p. 1260.	<a href="https://link.springer.com/article/10.1134/S1063778820080141">https://link.springer.com/article/10.1134/S1063778820080141</a>	0,328
38	В.Л. Аксенов, М.В. Рзынин, Е.П. Шабалин.		Исследовательские реакторы ОИЯИ: взгляд в будущее.	Препринт ОИЯИ, P3-2020- 31 (направлено в «ЭЧАЯ»)	<a href="http://www1.jinr.ru/Preprints/2020/031(P3-2020-31).pdf">http://www1.jinr.ru/Preprints/2020/031(P3-2020-31).pdf</a>	
39	Е.П. Шабалин, А.А. Хассан, М.В. Рзынин, К.В. Булатов		Решение задач нестационарных процессов энергетического реактора «НЕПТУН» (флуктуации амплитуды импульса, возможность колебательной неустойчивости) с использованием кода SERPENT.	Труды 63-й всероссийской научной конференции МФТИ. Москва. МФТИ. 2020, стр. 183.	<a href="https://mipt.ru/science/5top100/education/courseproposal/%D0%A4%D0%A4%D0%A4%D0%9F%D0%A4%20%D1%84%D0%B8%D0%BD%D0%B0%D0%B.pdf">https://mipt.ru/science/5top100/education/courseproposal/%D0%A4%D0%A4%D0%A4%D0%9F%D0%A4%20%D1%84%D0%B8%D0%BD%D0%B0%D0%B.pdf</a>	

40	Arzumanyan G.M. Mamatkulov K.Z. Vorobyeva M.Yu.	Bandarenka H.V., Khinevich N.V., Burko A.A., Redko S.V., Zavatski S.A., Shapel U.A. Micro- and Nanoelectronics Department, Belarusian State University of Informatics and Radioelectronics, Minsk 220013, Belarus, Kaunas University of Technology, Kaunas 44249, Lithuania, Nanophotonics and Metrology Laboratory, Swiss Federal Institute of Technology Lausanne (EPFL), Lausanne 1015, Switzerland, The Polytechnic School, Ira A. Fulton Schools of Engineering, Arizona State University, Mesa 85212, AZ, USA	3D silver dendrites for single-molecule imaging by surface-enhanced Raman spectroscopy	ChemNanoMat 10.1002/cnma.202000521	<a href="https://doi.org/10.1002/cnma.202000521">https://doi.org/10.1002/cnma.202000521</a>	3.384
41	Arzumanyan G.M.	Berestneva Yu.V., Raksha E.V., Voitash A.A., Savoskin M.V. Federal State Budget Scientific Institution "Federal Scientific Centre of Agroecology, Complex Melioration and Protective Afforestation of the Russian Academy of Sciences", 97 Universitetskij avenue, Volgograd 400062, Russian Federation L.M. Litvinenko Institute of Physical Organic and Coal Chemistry, 70 R. Luxemburg Street, Donetsk 83114, Ukraine	Thermally expanded graphite from graphite nitrate cointercalated with ethyl formate and acetic acid: morphology and physicochemical properties	Yu.V. Berestneva et al 2020 J. Phys.: Conf. Ser. 1658 012004	<a href="https://doi.org/10.1088/1742-6596/1658/1/012004">https://doi.org/10.1088/1742-6596/1658/1/012004</a>	0.601
42	Пепельшев Ю.Н., Попов А.К., Сумхуу Д.		Модель динамики импульсного реактора ИБР-2М с учетом температурных и мощностных эффектов быстрой обратной связи	Пепельшев Ю.Н., Попов А.К., Сумхуу Д. Модель динамики импульсного реактора ИБР-2М с учетом температурных и мощностных эффектов быстрой обратной связи. ВАНТ. Сер. Физика ядерных реакторов, 2020, вып. 3, с 28.	<a href="https://elibrary.ru/contents.asp?titleid=10028">https://elibrary.ru/contents.asp?titleid=10028</a>	