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| № ПП | авторский коллектив от ЛНФ ОИЯИ | сторонние соавторы с указанием страны и названия института | название публикации | библиографическая ссылка на публикацию | электронная ссылка на статью | Impact Factor | Q1/Q2/Q3 /Q4 | вклад ЛНФ ОИЯИ, % | установки и центры, где получены научные результаты | финансовая поддержка, указанная в публикации (РНФ, РФФИ, программы ЕС или страны-участницы ОИЯИ, включая гранты и проекты ПП, проекты, получившие финансирование различных фондов и т.п.) |
|------|---|--|--|--|---|---------------|--------------|-------------------|--|---|
| 1 | Hrubovčák P., Kondela T., Tomchuk O., Kholmurodov K., Kučerka N. | Dushanov E. (LRB JINR) | Reflectometry and molecular dynamics study of the impact of cholesterol and melatonin on model lipid membranes | European Biophysics Journal (2021) | https://doi.org/10.1007/s00249-021-01564-y | 1.733 | Q2 | 85% | GRAINS (FLNP JINR) | Russian Science Foundation, 19-72-20186. |
| 2 | Tomchuk O.V., Kosiachkin Y.N., Avdeev M.V. | Krasnikov D.V., Ilatovskii D.A., Nasibulin A.G. (Skolkovo Institute of Science and Technology, Russia) | Specular Reflectometry Studies of Alcohol-Induced Densification for Thin Films of Single-Walled Carbon Nanotubes | Journal of Surface Investigation 15(4) (2021) 773-776 | https://doi.org/10.1134/S1027451021040212 | 0.253 | Q3 | 60% | GRAINS (FLNP JINR) | Ministry of Science and Higher Education of the Russian Federation (project no. FZSR-2020-0007 within the framework of the state assignment no. 075-03-2020-097/1) |
| 3 | Tomchuk O.V., Avdeev M.V., Aksenov V.L., Ivankov O.I., Turchenko V.A. | Len A. (Centre for Energy Research, Hungary), Zabulonov Y.L. (Institute of Environmental Geochemistry of NASU, Ukraine), Bulavin L.A. (Taras Shevchenko National University of Kyiv, Ukraine) | Regulation of nanoporous structure of detonation nanodiamond powders by pressure: SANS study | Fullerenes Nanotubes and Carbon Nanostructures (2021) | https://doi.org/10.1080/1536383X.2021.1964478 | 1.869 | Q3 | 80% | YuMO (FLNP JINR), Yellow Submarine (Budapest Neutron Center) | Ministry of Education and Science of Ukraine, 20BF051-01 |
| 4 | Tomchuk O.V., Nagornyi A.V., Soloviov D.V. | Bulavin L.A. (Taras Shevchenko National University of Kyiv, Ukraine) | High-pressure reorganization of the fractal pore structure in detonation nanodiamond powders | Ukrainian Journal of Physics 66 (7) (2021) 635-639 | https://doi.org/10.15407/ujpe66.7.635 | 0.84 | Q4 | 90% | YuMO (FLNP JINR) | Ministry of Education and Science of Ukraine, 20BF051-01 |
| 5 | Tomchuk O.V. | - | Stochastic fractal by deterministic algorithm: Introducing the Möbius fractal | AIP Conference Proceedings 2377 (2021) 020002 | https://doi.org/10.1063/5.0063292 | 0.4 | - | 90% | | Ministry of Education and Science of Ukraine, 20BF051-01 |
| 6 | Tropin T.V., Kosiachkin Ye., Aksenov V.L. | Karpets M.L. (Institute of Experimental Physics, Kosice, Slovakia) | X-ray reflectometry for comparison of structural organization of fullerenes C60/C70 in polystyrene thin films | Journal of Surface Investigation 15(4) (2021) 768-772 | https://doi.org/10.1134/S1027451021040224 | 0.253 | Q3 | 100% | RR | |
| 7 | Artykulnyi O.P., Avdeev M.M., Kosiachkin Ye.M. | Petrenko V.I., Bulavin L.A., Safarik L. | Neutron investigation of interaction between anionic surfactant micelles and poly (ethylene glycol) polymer brush system | Nuclear Physics and Atomic Energy 22 (2021) 149-156 | https://doi.org/10.15407/jnpae2021.02.149 | 0.9 | Q3 | 90 % | GRAINS (FLNP JINR) | |
| 8 | <u>Goremichkin E.A., Waliszewski J., Filarowski A.</u> | Hetmańczyk Ł. (Jagiellonian University, Cracov, Poland), Vener M.V. (Mendeleev University of Chemical Technology, Russia and Kurnakov Institute of General and Inorganic Chemistry, Russia), Lipkowski P. (Wrocław University of Science and Technology, Poland), Tolstoy P.M. (St. Petersburg State University, Russia) | Spectroscopic Identification of Hydrogen Bonds Vibrations and Quasi-Isostructural Polimorphism in N-Salicylideneaniline | Molecules 2021, 26, 5403 | https://doi.org/10.3390/molecules26165043 | | | | | |
| 9 | Zuba I., Pawlukojć A., Waliszewski J., Ivanshina O. | | Fe3O4@MnO2 inorganic magnetic sorbent: Preparation, characterisation and application for (RuIII) ions sorption | Separation Science and Technology 2021 | https://doi.org/10.1080/01496395.2021.1965168 | 2.077 | | 100% | | |
| 10 | A.V. Nagornyi, M.V. Avdeev, A.I. Ivankov, T.V. Nagornaya | Yu. Yu. Shlapa, S.A. Solopan, A.G. Belous (Vernadsky Institute of General and Inorganic Chemistry, Kyiv, Ukraine); A.V. Shulenina (Moscow State University, Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation); L.A. Bulavin (Taras Shevchenko National University of Kyiv, Ukraine) ; Yu.L. Zabulonov (Institute of Environmental Geochemistry, Kyiv, Ukraine) | Structural Stability of Dispersions of Magnetic Nanoparticles in Aqueous Solutions of Polysorbate-80 | Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques volume 15, pages781–786 (2021) | https://doi.org/10.1134/S1027451021040339 | 0.252 | Q3 | 90% | YuMO | |

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|------|--|--|---|---|---|---------------|--------------|-------------------|---|--|
| 11 | V.V.Sikolenko | D.V.Karpinsky, M.V.Silibin (MIET), D. Zhaludkevich, A.Zhaludkevich, S.Latushka (NAS RB), V.Khomchenko(Uni Coveira), A.Franz (HZB), A.Kareiva, D.Baltrunas, K.Mazeika (Uni Vilnius) | Magnetic properties of BiFeO ₃ – BaTiO ₃ ceramics in the morphotropic phase boundary: A role of crystal structure and structural parameters | Journal of Magnetism and Magnetic Materials 539 (2021), 168409 | https://doi.org/10.1016/j.jmmm.2021.168409 | | Q1 | 15% | | EU Horizon 2020 |
| 12 | Kosiachkin Ye.N., Gapon I. V., Ushakova E.E., Avdeev M.V. | Rulev A.A.(MSU), Merkel D.(Wigner Research Center, Hungarian Academy of Sciences, Budapest), Bulavin L.A.(Taras Shevchenko National University of Kyiv, Ukraine),Itkis D.M.(MSU) | Structural Studies of Electrochemical Interfaces with Liquid Electrolytes Using Neutron Reflectometry: Experimental Aspects | Journal of Surface Investigation 15(4) (2021) 787-792 | https://doi.org/10.1134/S1027451021040285 | 0.253 | Q3 | 50% | GRAINS (FLNP JINR) GINA (BNC Budapest) | This work was supported by the Association of Young Specialists and Scientists, Joint Institute for Nuclear Research, Dubna, Russia (grant no. 20-402-05). |
| 13 | M. Balasoiu | V.N. Duginov, K.I. Gritsaj (DLNP JINR); S.I. Vorob'ev, A.L. Getalov, E.N. Komarov, S.A. Kotov, G. V. Scherbakov (NRC «Kurchatov Institute» - PNPI); D. Buzatu, C. Stan (Department of Physics, University POLITEHNICA of Bucharest) | muSR-Study of a 3% CoFe ₂ O ₄ Nanoparticle Concentration Ferrofluid | Magnetochemistry 7(7) 104 | https://doi.org/10.3390/magnetochemistry7070104 | 2.193 | Q3 | 25% | The muon channel of the SC-1000 synchrocyclotron of theNRC «Kurchatov Institute» - PNPI, Gatchina | RO-JINR Projects and Grants 2018-2021 |
| 14 | Ivanshina O.Yu., Zuba I., Sumnikov S.V., Nabyev A. A., Pawlukojć A. | | L-Tryptophan metal-organic frameworks based on transition metals: preparation, characterization and application for ruthenium ³⁺ ions sorption | AIP Conference Proceedings 2377 (2021) 020001 | https://aip.scitation.org/doi/10.1063/5.0063607 | 0.4 | - | 100% | | Cooperation Program between Polish scientific institutions and JINR, JINR Grant to Young Scientists and Specialists |
| 15 | Zuba I., Pawlukojć A. | Drwal A., Drwal K. (Univeristy of Warsaw, Warsaw, Poland) | Comparison study of ruthenium sorption on Fe ₃ O ₄ and Fe ₃ O ₄ @MnO ₂ in hydrochloric and nitric acids | Journal of Radioanalytical and Nuclear Chemistry (2021) 327 (3) | https://link.springer.com/article/10.1007%2Fs10967-020-07535-5 | 1.371 | | | | Representative of the Government of the Republic of Poland in Joint Institute for Nuclear Research in Dubna (Russia) 04-4-1121-2015/2020 |
| 16 | Zuba I. | Polkowska – Motrenko H., Sameczyński Z., Dybczyński R.S., Chajduk E., Danko B., Kalbarczyk P., Pyszyńska M., (Institute of Nuclear Chemistry and Technology, Warsaw, Poland); Krata A.A. (University of Warsaw, Warsaw, Poland) | Preparation of Three New Certified Reference Materials for Food and Environmental Analysis and Certification Using Laboratory Intercomparison as well as Primary Reference Measurement Procedures | Food Analytical Methods (2021) | https://link.springer.com/article/10.1007%2Fs12161-021-02081-6 | | | | | This work was supported by funds from the National Centre for Research and Development in the frame of the project MODAS No. INNOTECH-K1/IN1/43/138947/NCBR/12 for the period 2012–2015, Warsaw, Poland. |
| 17 | Zhaketov V.D., Hramco K, Petrenko A.V., Kopatch Yu. N., Gundorin N.A., Nikitenko Yu.V., Aksenov V.L. | Khaydukov Yu.N. (Skobel'syn Institute of Nuclear Physics, Moscow State University, Moscow, Russia); Csic A. (Institute for Nuclear Research, Hungarian Academy of Sciences, Debrecen, Hungary) | Polarized Neutron Reflectometer with the Recording of Neutrons and Gamma Quanta | Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques, 2021, Vol. 15, No. 3, pp. 549–562. | https://link.springer.com/article/10.1134/S1027451021030356 | 0.253 | Q3 | 95% | REMUR (IBR-2, Dubna) | |
| 18 | Zhaketov V.D., Nikitenko Yu.V. | D. I. Devyaterikov, V. V. Proglyado (Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia); E. A. Kravtsov (Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia; Ural Federal University, Ekaterinburg, Russia) | Investigation of Helimagnetism in Dy and Ho Thin Films by Neutron Reflectometry | Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques, 2021, Vol. 15, No. 3, pp. 542–548 | https://link.springer.com/article/10.1134/S102745102103023X | 0.253 | Q3 | 50% | REMUR (IBR-2, Dubna); IMP UB RAS | |

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| № ПП | авторский коллектив от ЛНФ ОИЯИ | сторонние соавторы с указанием страны и названия института | название публикации | библиографическая ссылка на публикацию | электронная ссылка на статью | Impact Factor | Q1/Q2/Q3 /Q4 | вклад ЛНФ ОИЯИ, % | установки и центры, где получены научные результаты | финансовая поддержка, указанная в публикации (РНФ, РФФИ, программы ЕС или страны-участницы ОИЯИ, включая гранты и проекты ПП, проекты, получившие финансирование различных фондов и т.п.) | |
| 19 | Zhaketov V.D., Nikitenko Yu.V. | D. I. Devyaterikov, V. V. Proglyado (Mikheev Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia); O. A. Kondrat'ev, E. M. Pashaev, I. A. Subbotin (National Research Center Kurchatov Institute, Moscow, Russia); V. I. Zverev (Lomonosov Moscow State University, Physical Department, Moscow, Russia); E. A. Kravtsov, V. V. Ustinov (Mikheev Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Ekaterinburg, Russia, Ural Federal University n.a. the First President of Russia B.N. Yeltsin, Ekaterinburg, Russia) | Influence of Dimensional Effects on the Curie Temperature of Dy and Ho Thin Films | Physics of Metals and Metallography, 2021, Vol. 122, No. 5, pp. 465–471. | https://link.springer.com/article/10.1134/S0031918X21050033 | 1.064 | Q2 | 50% | REMUR (IBR-2, Dubna); IMP UB RAS | | |
| 20 | D. Berikov, G. Ahmadov, Yu. Kopatch, V. Novitsky, G. Danilyan | A. Gagarski - Petersburg Nuclear Physics Institute (Russia); H. Deng, V. Hutanu - Institute of Crystallography, RWTH Aachen and Jülich Centre for Neutron (Germany); S. Masalovich, J. Klenke - Heinz Maier-Leibnitz Zentrum (MLZ), Technical University of Munich (Germany); Z. Salhi, E. Babcock - Jülich Centre for Neutron Science (JCNS) at the Heinz Maier-Leibnitz Zentrum (Germany) | Effect of rotation in the γ -ray emission from 60 meV polarized neutron-induced fission of the ²³⁵ U isotope | PHYSICAL REVIEW C 104, 024607 (2021) | DOI: 10.1103/PhysRevC.104.024607 | 3.296 | Q2 | 60% | FRM II reactor, POLI instrument | This work has been supported by the Ministry of Education and Science of the Russian Federation, German Ministry for Education and Research BMBF through the project 05K13PA3 and partially supported by the Science Development Foundation under the President of the Republic of Azerbaijan, Grant No. EIF-BGM-5-AZTURK-1/2018-2/01/1-M-01. | |
| 21 | Egor Lychagin, Alexei Muzychka, Grigory Nekhaev, Alexander Nezvanov, Alexander Strelkov, Kylyshbek Turlybekuly, Kirill Zhernenkov | Aleksander Aleksenskii, Artur Dideikin, Alexander Vul', Alexander Shvidchenko - Ioffe Institute, Polytechnicheskaya Str. 26, 194021 St. Petersburg, Russia; Markus Bleuel - National Institute of Standards and Technology, Gaithersburg, MD 20899, USA; Alexei Bosak, Alexandra Chumakova, - European Synchrotron Radiation Facility, 71 av. des Martyrs, F-38042 Grenoble, France; Marc Dubois - Institut de Chimie de Clermont-Ferrand (ICCF UME 6296), Université Clermont Auvergne, CNRS, 24 av. Blaise Pascal, F-63178 Aubière, France; Ekaterina Korobkina - Department of Nuclear Engineering, North Carolina State University, Raleigh, NC 27695, USA; Valery Nesvizhevsky, Ralf Schweins - Institute Max von Laue–Paul Langevin, 71 av. des Martyrs, F-38042 Grenoble, France | Clustering of Diamond Nanoparticles, Fluorination and Efficiency of Slow Neutron Reflectors | Nanomaterials 2021, 11(8), 1945 | https://doi.org/10.3390/nano11081945 | 5.076 | Q1 | | ID28 instrument at ESRF, D11 at ILL, YuMO and REGATA at FLNP JINR, DLS at Ioffe Institute, EM (FEI Tecnai G2 30 S-TWIN) at NRC “Kurchatov Institute”—CRISM “Prometey”, IR spectrometr at UCA, | This research was funded by grants RFFI-18-29-19039, ERC INFRASUP P-2019-1/871072, CREMLINplus Grant agreement 871072, ANR-20-CE08-0034, and JINR grant for young scientists No. 21-402-06. | |
| 22 | G. Ahmadov, D. Berikov, S. Nuruyev, Yu. Kopatch | M. Holik, J. Zich, P. Pridal - Faculty of Electrical Engineering, UWB in Pilsen & Institute of Experimental and Applied Physics, CTU in Prague (Czech Republic); F. Ahmadov, Z. Sadygov, R. Akbarov, A. Sadigov, A. Mammadli - Institute of Radiation Problems-ANAS (Azerbaijan); R. Mammadov - National Nuclear Research Center (Azerbaijan); E. Yilmaz, E. Doganci - Nuclear Radiation Detectors Application and Research Center (Turkey) | Gamma-ray spectroscopy with MAPD array in thereadout of LaBr3:Ce scintillator | J. Instrum. 16, P07020 (2021) | https://doi.org/10.1088/1748-0221/16/07/P07020 | 1.415 | Q3 | 40% | FLNP, National Nuclear Research Center, Baku and Institute of Experimental and Applied Physic in Prague | This work was supported by the Science Development Foundation under the President of the Republic of Azerbaijan, Grant No. EIF-BGM-5-AZTURK-1/2018-2/01/1-M-01 and partially supported by the Scientific and Technological Research Council of Turkey (TUBITAK) under UBİDEB2517-Scientific and Technological Research Projects Support Program (Contract Number:119F210). This work was also supported by OP VVV Project CZ.02.1.01/0.0/0.3/16_019/0000766 (Engineering applications of microworld physics) and LTT17018 (Research infrastructure CERN). | |
| 23 | I. Zinicovscaia, N. Yushin, D. Grozdov, T. Ostovnaya | A. Safonov, D. Kryuchkov, N. Popova (Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences) K. Boldyrev (Nuclear Safety Institute of the Russian Academy of Sciences) | Bio-zeolite use for metal removal from copper-containing synthetic effluents | J Environ Health Sci Engineer (2021). | DOI: 10.1007/s40201-021-00694-x | 2.13 | Q3 | 80% | РЕГАТА ИБР-2 | РФФИ | |
| 24 | A. S.Sergeeva, I. Zinicovscaia; D. Grozdov; N. Yushin. | | Assessment of selected rare earth elements, HF, Th, and U in the Donetsk region using moss bags technique | Atmospheric Pollution Research, 12(9), 2021, 101165 | https://doi.org/10.1016/j.apr.2021.101165 | 3.52 | Q1 | 100% | РЕГАТА ИБР-2 | | |

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| 25 | I. Zinicovscaia, N. Yushin, D. Grozdov, K. Vergel, P. Nekhoroshkov, | E. Rodlovskaya (A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences) | Treatment of rhenium-containing effluents using environmentally friendly sorbent, Saccharomyces cerevisiae biomass | Materials 2021, 14(16), 4763; | https://doi.org/10.3390/ma14164763 | 3.62 | Q2 | 90% | РЕГАТА ИБР-2 | РФФИ | |
| 26 | I. Zinicovscaia, G., Hristozova, M. Frontasyeva, | J. Lavrinenko, A. Plieva (he North Ossetian State University of K.L., Khetagurov), K. Tkachenko (Komarov Botanical Institute of RAS (BIN), 197376 Saint Petersburg, Russia), D. Dogadkin, I. Gromyak, Vladimir Kolotov (Vernadsky Institute of Geochemistry and Analytical Chemistry of Russian Academy of Sciences, 119334 Moscow, Russia) | Elemental Composition of Infusions of Herbs (Tisanes) of North Ossetia (the Caucasus). | Agriculture 2021, 11, 841 | https://doi.org/10.3390/agriculture11090841 | 2.92 | Q1 | 50% | РЕГАТА ИБР-2 | | |
| 27 | G. Hristozova, I. Zinicovscaia. | A. Ciocarlan, L. Lupascu, A. Aricu, I. Dragalin, V. Popescu (Institute of Chemistry, Moldova), E.I. Geana, R.E. Ionete (Department of Research and Development, National Research and Development Institute for Cryogenics and Isotopic Technologies— ICSI Rm. Valcea, 4th Uzinei Str., PO Raureni Box 7, 240050 Rm. Valcea, Romania), N. Vornicu (Metropolitan Center of Research T.A.B.O.R., 9 Closca Str., RO-700066 Iasi, Romani), O. Dului (University of Bucharest) | Chemical Composition and Assessment of Antimicrobial Activity of Lavender Essential Oil and Some By-Products | Plants 2021, 10(9), 1829 | https://doi.org/10.3390/plants10091829 | 3.935 | Q1 | 30% | РЕГАТА ИБР-2 | JINR-Romania Plenipotentiary Grant | |
| 28 | I. Zinicovscaia, D. Grozdov, N. Yushin, S. Alexey, P. Igor, V. Mikhail, A. Pryadka, B. Vladimir, E. Shubralova, O. Tsygankof. | S. Alexey, P. Igor, V. Mikhail (Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, 31 Leninskii pr., Moscow, 119991, Russia), A. Pryadka, B. Vladimir, (Federal State Unitary Enterprise «Russian Metrological Institute of Technical physics and Radio Engineering», 141570, Moscow region, Solnechnogorsky District, Mendeleevo, Russia), E. Shubralova (Joint Stock Company «Central Research Institute for Machine Building», 4 Pionerskaya Str., Korolev, Moscow Region, 141070, Russia), O. Tsygankof (Korolev Rocket and Space Public Corporation Energia (RSC Energia), 4A Lenin Str., Korolev, Moscow region, 141070, Russia). | Analysis of the rolled cotton cloth fixed on the outer surface of the International Space Station using neutron activation analysis and complementary techniques. | Acta Astronautica 189 (2021) 278–282, | https://doi.org/10.1016/j.actaastro.2021.08.052 | 2.413 | Q1 | 70% | РЕГАТА ИБР-2 | | |
| 29 | Grigory Arzumanyan, Kahrmon Mamatkulov, Maria Vorobyeva | Maria Karlova, Dmitry Bagrov, Olga Sokolova and Konstantin Shaitan. Lomonosov Moscow University, Moscow, Russia | Raman spectroscopy reveals lipids in protein-containing SMA-stabilized lipodiscs | Microscopy and Microanalysis 27(S1):1714-1715 | doi:10.1017/S1431927621006267 | 4.127 | Q1 | 60% | “Confotec CARS” microspectrometer, ЛНФ ОИЯИ, Mass-spectrometer, Skolkovo. | The work of the JINR team was financed by the Thematic Project “Nanobiophotonics”, # 04-4-1133/2018-2023. This work was supported by the Russian Foundation for Basic Research (RFBR) (Projects No. 18-504-12045 and No. 20-54-15004) | |
| 30 | Ю. Н. Пепельшев, Д. Сумхуу | | Оптимизация автоматического регулирования мощности импульсного реактора ИБР-2М при наличии неустойчивости | Пепельшев Ю. Н., Сумхуу Д. Оптимизация автоматического регулирования мощности импульсного реактора ИБР-2М при наличии неустойчивости. Препринт ОИЯИ Р13-2021-30. Дубна, 2021 | http://www1.jinr.ru/Preprints/2021/030(P13-2021-30).pdf | | | 100% | ИБР-2М | | |
| 31 | Пепельшев Ю. Н., Цогтсайхан Ц | | Динамика колебательной неустойчивости реактора ИБР-2М. Анализ шумов | Пепельшев Ю. Н., Цогтсайхан Ц. Динамика колебательной неустойчивости реактора ИБР-2М. Анализ шумов. Препринт ОИЯИ Р13-2021-29. Дубна, 2021 | http://www1.jinr.ru/Preprints/2021/029(P13-2021-29).pdf | | | 100% | ИБР-2М | | |

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