

List of papers of the Conferences “Metallurgy of non-ferrous, rare and precious metals “ and “Gold of Siberia”

Section «Metallurgy of non-ferrous metals»

	Paper's Title	Organization	Authors
1.	Commercial antimony recovery by vacuum distillation	JSC Uralelektromed	A.A. Korolev, K.L. Timofeev, R.S. Voinkov, <u>S.V. Sergeichenko</u> , G.I. Maltsev
2.	Study on reaction characteristics of fluidized reduction roasting of laterite nickel ore under coal gas action	Institute of Engineering Thermophysics, Chinese Academy of Sciences	<u>Siqi Zheng</u> , Xiaofang Wang, Gaotao Qin, Zhiping Zhu
3.	Application of carbon containing secondary materials at pyrometallurgical operations of Norinickel Polar Division	PJSC “MMC “Norilsk Nickel”	<u>P.G. Paymushkin</u> , P.V. Malakhov, O.Iu. Ianbekova, A.V. Kaverzin
4.	Properties and characteristics of mineral vallerite	Institute of Chemistry and chemical technology SB RAS	R.V. Borisov , A.A. Karacharov, M.N. Likhatski , D.V. Karpov, A.G. Mikhailov
5.	Environmentally friendly sphalerite treatment in acid water solution	Institute for Technology of Nuclear and Other Mineral Raw Materials	<u>M.D. Bugarčić</u> , A.A. Jovanović, M.D. Sokić
6.	The using of mechanical water purification technology for metallurgical plants	SPC PROMVODOCHISTKA	A.V. Barynkin
7.	Recovery of lead from oxygen and sulfide compounds in alkaline melts, in relation to technologies for processing secondary and mineral raw materials	Siberian Federal University	<u>M.V. Chekushin</u> , V.S. Chekushin, N.V. Marchenko, N.V. Oleinikova
8.	Production of commercial antimony through sodium antimonate treatment	JSC Uralelektromed	A.A. Korolev, K.L. Timofeev, <u>R.S. Voinkov</u> , A.I. Popov, S.A. Medvedev, A.V. Kuzmenko
9.	Study of properties of intermediate layer formed in Vanyukov furnace while processing nickel-containing copper feed	PJSC “MMC “Norilsk Nickel”	L.V. Krupnov, R.A. Pakhomov, A.V. Kaverzin, Ya.I. Kosov, P.V. Malakhov
10.	Development of high purity tellurium production technology	UMMC Technical University	<u>S.A. Krauhin</u> , A.A. Korolev, K.L. Timofeev, R.S. Voinkov, V.A. Kochin, R.I. Verhodanov
11.	Specifics of cobalt production at Kola MMC's remanufacturing facility	Tananaev Institute of Chemistry - Subdivision of the Federal Research Centre “Kola Science Centre of the RAS	<u>A.G. Kasikov</u> , L.V. Dyakova, E.A. Shchelokova, N.M. Tarasenko, P.V. Smirnov, A.P. Tyukin
12.	Leaching of lead from intermediate products of zinc metallurgy	Institute for Technology of Nuclear and Other Mineral Raw Materials	<u>D. Z. Anđić</u> , V. D. Manojlović, N. M. Gajić, M. D. Sokić, M. D. Bugarčić, Ž. J. Kamberović

13.	On the role of engineering companies and technological sovereignty	«Gormasheexport» JSC	A.A. Shchetinin, A.I. Stepanenko, A.V. Bauman
14.	Technological audit and optimization of thickening and water recycling schemes	«Gormasheexport» JSC	A.A. Sokolova
15.	Use of quartzite in copper-nickel fine matte pyrometallurgy	PJSC "MMC "Norilsk Nickel"	P.V. Malakhov, R.A. Pakhomov, O.Iu. Ianbekova, V.P. Milichenko
16.	Synthesis of hybrid nanoparticles CuFe ₂ O ₄ /Au and CuO/Au with using the anion-exchange resin precipitation method	Siberian Federal University	A. Y. Pavlikov, S. V. Saikova, D.V. Karpov, A. S. Samoilo
17.	Copper concentrates hydrothermal enrichment technology	Ural Federal University named after B. N. Yeltsin	A.V. Kritskii, K.A. Karimov, E.A. Kuzas, D.A. Rogozhnikov
18.	Exploration and Processing of Critical Minerals – Potential of CSIR	CSIR-Institute of Minerals and Materials Technology	Ramanuj Narayan
19.	Critical Minerals: Recovery of Ta, Nb, and Ni metal from secondary industry waste	Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC)	Upendra Singh
20.	Molten Salt Electrowinning of Magnesium, Rare Earths, Recycling of Spent Lithium Ion Batteries: Capabilities And Opportunities	CSIR - Central Electrochemical Research Institute	K. Ramesha
21.	Measurement of parameters of molten metals	Sidermag, LLC	E.S. Shubin
22.	Ash & slag utilization in pyrometallurgy of Nor Nickel Polar Division	PJSC "MMC "Norilsk Nickel"	V.V. Velichko, P.V. Malakhov, D.D. Novikova, O.V. Nosova
23.	Iron removal from zinc-containing solutions in the form of jarosite	Nietz Technologies	S.Y. Polezhaev, S.I. Lyakh, K.M. Falin, I.V. Fomenko
24.	Experience with the use of screw-tooth crushers in ore preparation processes for clay-containing raw materials	«Gormasheexport» JSC	A.I. Stepanenko, A.A. Stepanenko
25.	Preparation and investigation of the photocatalytic activity of nanocomposites based on nickel and silver ferrite	Siberian Federal University	V.E. Razvozzhaeva, S.V. Saikova, D.I. Nemkova
26.	Impact of the temperature level on extraction recovery of copper from the PLS generated from Kazakhstani copper ores heap leaching process	VNIItsvetmet Affiliate of the RSE 'NC CPMRM RK'	N.Ye. Yakushev, N.V. Sizikova
27.	Development of high purity selenium production technology	UMMC Technical University	S.A. Krauhin, A.A. Korolev, K.L. Timofeev, R.S. Voinkov, V.A. Shunin, V.A. Kochin, R.I. Verhodanov
28.	Kinetic study of lead extraction from polymetallic concentrates	Tajik technical University by name of M.S.Osimy	Z.H. Gaibullaeva
29.	A study on the photocatalytic activity of nickel-ferrite/zinc oxide magnetic composites	Siberian Federal University	A.A. Marchenko, D.I. Nemkova, S.V. Saykova
30.	Obtaining and investigation of photocatalytic properties of nickel-gold ferrite nanocomposites.	Siberian Federal University	M. E. Fedosenko, D. I. Nemkova, S. V. Saikova
31.	The using of mechanical water purification technology for metallurgical plants	SPC PROMVODOCHISTKA	V.Yu. Chaika, A.V. Barynkin
32.	Synthesis of ultra-small NiMnO ₃ nanoparticles using probe sonication: the effect of the solvent on the size and morphology of the particles	Siberian Federal University	D. I. Nemkova, A. E. Krolikov, S. V. Saikova

33.	Practice, methods and tools for calculating, monitoring and reducing the carbon footprint of operations and products	OOO DAR.RU	D.A. Platonov
34.	Opportunities for the supply of equipment from Chinese manufacturers and leading global manufacturers for analytical control at all stages of the production of non-ferrous and precious metals	«Energolab» LLC	M.I. Melnik

Section «Metallurgy of rare metals»

	Paper's Title	Organization	Authors
1.	Deep eutectic solvents – promising extractants	Kurnakov Institute of General and Inorganic Chemistry of the RAS	<u>A.A. Voshkin</u> , A.E. Kostanyan, A.I. Kholkin, Yu.A. Zakhodyaeva, I.V. Zinov'eva, A.V. Kozhevnikova, D.V. Lobovich
2.	Development of a comprehensive technology for processing lithium mica ores	“Giredmet” JSC	I.L. Fureev
3.	Scandium extraction from sulfuric acid solutions in systems with di(2-ethylhexyl) phosphoric acid	Institute of Chemistry and chemical technology SB RAS	N.A. Grigorieva, I.Yu. Fleitlikh, T.Yu. Ivanenko, S.A. Novikova
4.	Results of industrial implementation of improved extraction technology for metallic indium extraction	Chelyabinsk Zinc Plant CZP, JSC	<u>A.E. Vasilyeva</u> , M.S.Varganov, I.Yu. Fleitlikh, N.A. Grigorieva
5.	Obtaining lithium carbonate from the “black mass” of lithium-ion batteries	Siberian Federal University	<u>S. A. Aleinikov</u> , N. V. Belousova
6.	Anion resin exchange synthesis of indium(III) and tin(IV) hydrosols for producing transparent conductive films	Institute of Chemistry and chemical technology SB RAS	<u>N.P. Fadeeva</u> , S.V. Saikova
7.	Extraction of gallium from aluminum smelting carbon dust	Siberian Federal University	<u>Ya.V. Kazantsev</u> , A.F. Shimanskii, V.N. Losev, O.V. Buyko, S.L. Didukh
8.	Assessment of prospects for chemical enrichment of rare metal ores of the Tomtor deposit	Institute of Chemistry and chemical technology SB RAS	V.I. Kuzmin, D.V. Kuzmin, <u>O.A. Epov</u> , G.N. Bondarenko
9.	Use of ion-exchange processes in the technology of mining and production of rare and radioactive metals (experience and developments of VNIPIPT JSC)	Design & Survey and Research & Development Institute of Industrial Technology, JSC	<u>A.V. Tatarnikov</u> , A.A. Solovev, E.Yu. Meshkov, S.I. Andreeva, N.A. Bobyrenko
10.	Bimetallic rare metal alkoxides - precursors for the production of metal and oxide systems	MIREA – Russian Technological University	<u>K. O. Lyasnikov</u> , O. V. Chernyshova, I. A. Mikheev
11.	A deep eutectic solvent based on dialkylphosphinic acid in Nd(III) extraction	Kurnakov Institute of General and Inorganic Chemistry of the RAS	<u>Yu.A. Zakhodyaeva</u> , I.V. Zinov'eva, A.A. Voshkin
12.	Scheme of extraction cascades for the extraction of heavy group lanthanides by binary extractants	Institute of Chemistry and chemical technology SB RAS	S.N. Kalyakin, V.I. Kuzmin, M.A. Mulagaleeva

Section «Metallurgy of precious metals»

	Paper's Title	Organization	Authors
1.	The use of biotechnology to solve environmental and technological problems of gold mining	Irkutsk Research Institute of precious and rare metals and diamonds (Irgiredmet JSC)	<u>M.P. Nepomniashchikh</u> , G.I. Voiloshnikov, S.V. Petrov, E.P. Olberg, A.V. Byvaltsev
2.	Development of technology for high pressure hydrometallurgical processing of gold-containing material with preliminary atmospheric oxidation using recycled high pressure oxidation products	Nietz Technologies	<u>R.R. Anohin</u> , S. I. Lyakh, I. V. Fomenko
3.	Increasing the intensity of biooxidation of refractory gold-bearing concentrate	Research Center of Biotechnology RAS	A.G. Bulaev
4.	Ammonium sulfite leaching of silver chloride cementate	JSC Uralelektromed	A.A. Korolev, K.L. Timofeev, R.S. Voinkov, Y.D. Zelyakh, A.A. Zvereva, <u>P.A. Klishina</u>
5.	Hydrothermal production of nanomaterials based on noble metals and their composites with nickel	Institute of Chemistry and chemical technology SB RAS	<u>R.V. Borisov</u> , O.V. Belousov, N.V. Belousova
6.	On the question of the forms of existence of palladium(II) complexes in sulfate-chloride solutions	MIREA – Russian Technological University	<u>M.A. Evtyukhin</u> , E.S. Dzyuba, T.M. Buslaeva
7.	Comparison of titanium and platinum dissolution rates under autoclave oxidizing conditions	Institute of Chemistry and chemical technology SB RAS	<u>A.A. Akimenko</u> , O.V. Belousov, R.V. Borisov
8.	Development of a synthesis technique and characterization of conductive inks based on highly-concentrated silver organosols	Institute of Chemistry and chemical technology SB RAS	<u>M. Yu. Flerko</u> , S.A. Vorobyev
9.	Study of regeneration of vacuum filters ceramic sections using different washing compositions	Polyus Krasnoyarsk JSC	I.E. Vasilyev, V.V. Maksimenko, <u>M.V. Tropin</u> , S.S. Orlov
10.	Possibilities of mass spectrometry with glow discharge in the analysis of metals and alloys	RCC LABTEST	A.E. Kamenshchikov

Section «Beneficiation technology of non-ferrous, rare and precious metals ores»

	Paper's Title	Organization	Authors
1.	Technology for the processing of refractory carbonaceous gold materials	IRGIREDMET, JSC	<u>Ye.I. Topychkanova</u> , N.A. Dementieva, R.N. Nabiulin, A.Yu. Chikin
2.	Assessment of the impact of physical and mechanical ore properties on the process plant performance	Polyus Krasnoyarsk JSC	<u>A.N. Pugach</u> , R.G. Yelizarov, D.V. Malykhin, A.V. Teteryatnikov
3.	Processing of low-nickel pyrrhotite dump waste product of the Talnakh concentrator	PJSC "MMC "Norilsk Nickel"	<u>L.S. Lesnikova</u> , M.S. Datsiyev, A.N. Sisina, V.V. Velichko
4.	Prediction modelling for process plant performance based on chemical composition of the feed material	Polyus Krasnoyarsk JSC	D.V. Malykhin, O.A. Ivashova, <u>A.O. Strizhnev</u> , <u>E.V. Cherkashina</u>

5.	Geological and petrographic summary of the Ilyinsky site, Upper Yenashim ore cluster	Polyus Krasnoyarsk JSC	D.A. Ryabova, L.S. Agafonova, I.A. Kuzmenko, P.V. Yegorova, M.S. Pavlyuchenko
6.	Modeling the process of leaching from copper-nickel ore enrichment tailings by autochthonous microflora	Institute of Chemistry and chemical technology SB RAS	<u>Yu.L. Gurevich</u> , A.G. Mikhailov, N.F. Usmanova, E.N. Merkulova, A.E. Zuev, M.I. Teremova, A.M. Zhizhaev, G.N. Bondarenko
7.	Calaverite ore heap leaching specifics	Polyus Krasnoyarsk JSC	K.V. Lyubin, I.D. Rygin, <u>L.L. Tikhonov</u>
8.	Complex processing of gold placers in the south of the Far East	Institute of Chemistry Far Eastern Branch, RAS	<u>M.A. Medkov</u> , G.F. Krysenko, E.E. Dmitrieva, V.P. Molchanov
9.	To the issue of flotation enrichment potential ore of Raisinskoye deposit	Siberian Federal University	N.I. Konnova, A.V. Tarasov
10.	The potential for biotechnological methods to enhance the quality of lead concentrates	Siberian Federal University	N.K. Algebraistova, A.V. Belyi, <u>I.V. Prokopyev</u> , E.S. Ananenko, I.S. Plotnikov
11.	Identification and investigation of the new crystal structure of the valleriite-tochilinite morphotropic series	Institute of Chemistry and chemical technology SB RAS	D.V. Karpov, R.V. Borisov, M.N. Likhatski, A.A. Karacharov
12.	Performance evaluation of using collectors combinations in the collective flotation of lead-zinc ores	Siberian Federal University	<u>A.A. Plotnikova</u> , N.F. Usmanova, E.A. Burdakova, I.I. Baksheeva, D.P. Tarayev
13.	Decomposition of rocks for elemental analysis	Institute of Chemistry Far Eastern Branch, RAS	<u>M.A. Medkov</u> , G.F. Krysenko, E.E. Dmitrieva, N.V. Zarubina, V.P. Molchanov
14.	Flotation testing of the ore sample of the windbreak ore occurrence	Siberian Federal University	<u>N.I. Konnova</u> , I.P. Chebokchinov
15.	Automated X-ray analysis of mineral composition of ores and concentrates in process control	Siberian Federal University	<u>I.S. Yakimov</u> , A.N. Zaloga, O.E. Bezrukova, P.S. Dubinin, A.S. Samoilo, M.V. Noskov, D.V. Khlystov, S.D. Kirik
16.	Old gold-bearing dumps and methods of involving them in recycling	IRGIREDMET, JSC	<u>S. V. Gruba</u> , S.S. Timofeeva
17.	Application of optical-electronic measurement techniques in tasks of diagnostics of multiphase flows	Kutateladze Institute of Thermophysics of the SB RAS	I.K. Kabardin, S.V. Dvoinishnikov, V.G. Meledin, G.V. Bakakin, V.V. Rakhmanov, N.A. Pribaturin, P.D. Lobanov
18.	Methods for studying the local hydrodynamic structure of multiphase flows	Kutateladze Institute of Thermophysics of the SB RAS	I.K. Kabardin, P.D. Lobanov, A.V. Chinak, S.V. Dvoinishnikov, V.G. Meledin, N.A. Pribaturin, V.A. Pavlov, G.V. Bakakin

19.	Issues of rare earth elements control in ores, enrichment products, and products of metallurgical treatment	VNIItsvetmet Affiliate of the RSE 'NC CPMRM RK'	A.A. Ermoshkina
20.	The main minerals are Nb and REE in high-grade ores of the Tomtor deposit	V.S. Sobolev Institute of Geology and Mineralogy SB RAS	<u>E.V. Lazareva</u> , S.M. Zhmodik, A.V. Tolstov
21.	Application of flowvision domestic software system for simulation of technological processes in mining industry	TESIS Ltd.	<u>K.A. Semenov</u> , A.E. Shchelyaev, M.S. Yakovchuk