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- Анализ цитирования
- Анализ международного сотрудничества
- Поиск новых партнеров
- Выработка рекомендаций для автора

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Основные направления научных исследований и разработок

- разработка новых оптических и лазерных материалов и твердотельных лазеров на их основе;
- перспективные зеркальные оптические системы;
- технологии и оборудование высокоточной обработки поверхностей оптических стекол и монокристаллов;
- оптико-электронные приборы для дистанционного зондирования земли.

Kuleshov, Nikolai V.

Belarusian National Technical University, Center for Optical Materials and Technologies, Minsk, Belarus

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2	Diode-pumped femtosecond Yb:KGd(WO4)2 laser with 1.1-W average power View at Publisher	Brunner, F., Spühler, G.J., Aus Der Au, J., (...), Kuleshov, N.V., Keller, U.	2000	Optics Letters	182
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4	CW laser performance of Yb and Er, Yb doped tungstates View at Publisher	Kuleshov, N.V., Lagatsky, A.A., Shcherbitsky, V.G., (...), Diening, A., Huber, G.	1998	Applied Physics B: Lasers and Optics	170
5	Diode-pumped CW lasing of Yb:KYW and Yb:KGW View at Publisher	Lagatsky, A.A., Kuleshov, N.V., Mikhailov, V.P.	1999	Optics Communications	100
6	Spectroscopy and continuous-wave diode-pumped laser action of Yb 3+:YVO4 View at Publisher	Kisel, V.E., Troshin, A.E., Tolstik, N.A., (...), Matrosova, T.A., Kupchenko, M.L.	2004	Optics Letters	86
7	Absorption and luminescence of tetrahedral Co2+ ion in MgAl2O4 View at Publisher	Kuleshov, N.V., Mikhailov, V.P., Scherbitsky, V.G., Prokoshin, P.V., Yumashev, K.V.	1993	Journal of Luminescence	83
8	Yb3+-doped YVO4 crystal for efficient Kerr-lens mode locking in solid-state lasers	Lagatsky, A.A., Sarmani, A.R., Brown, C.T.A., (...), Matrosova, T.A.,	2005	Optics Letters	82

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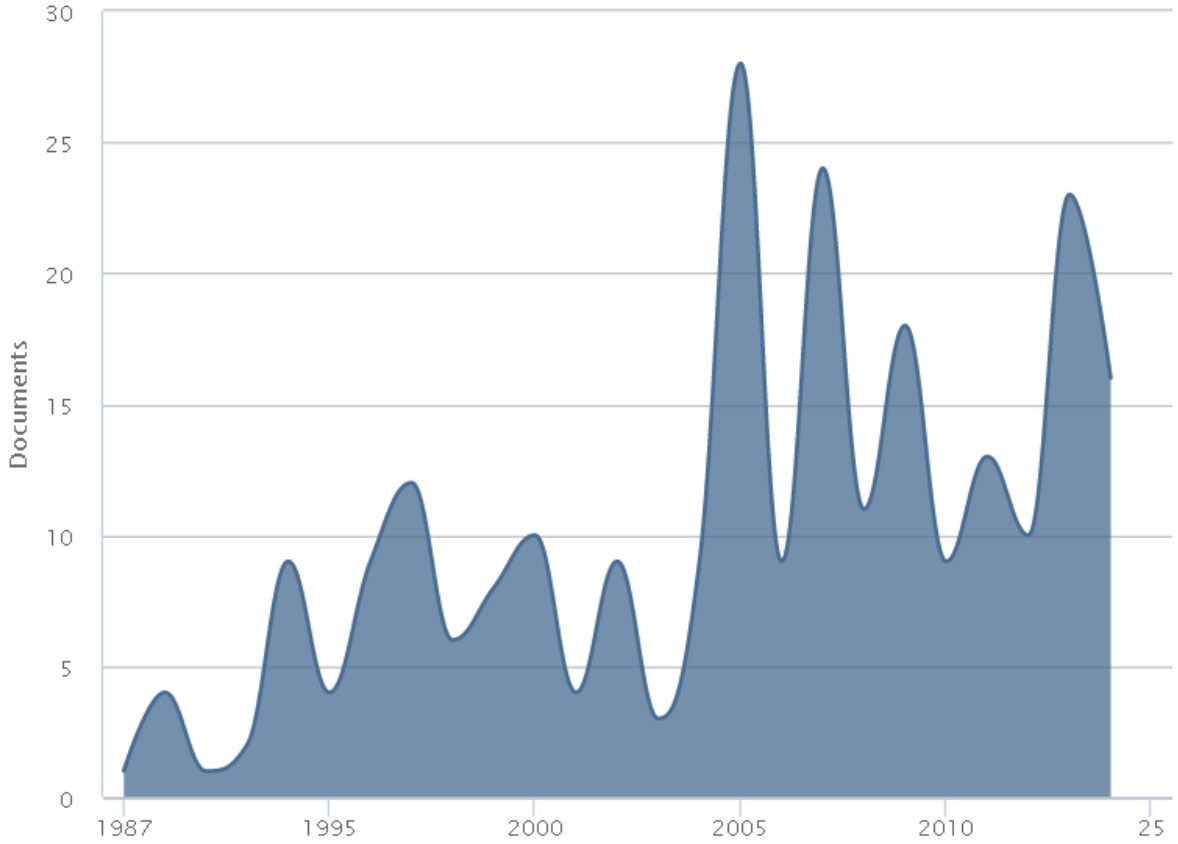

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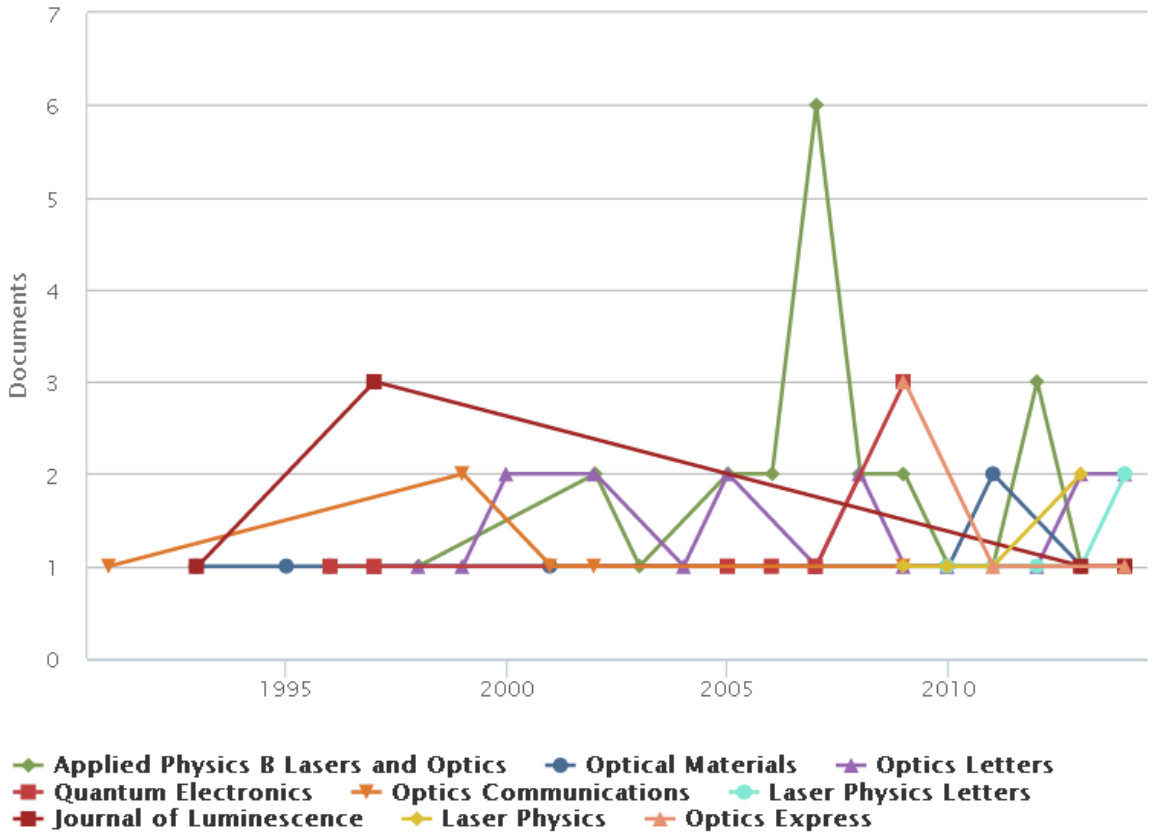

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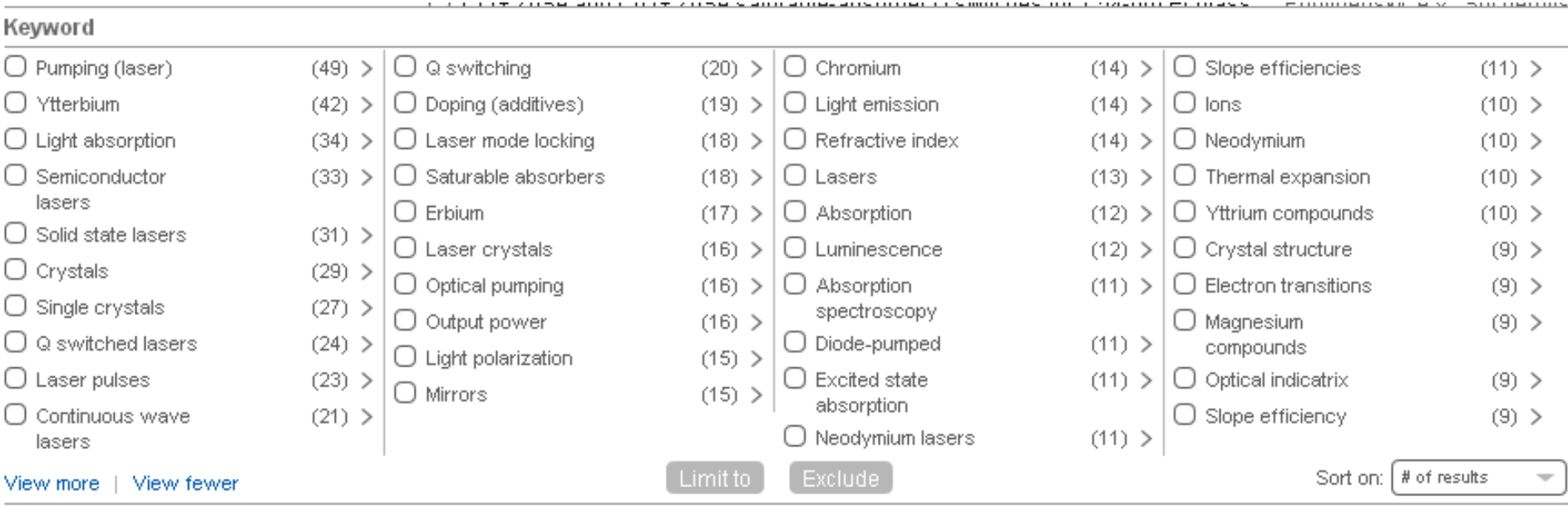

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3	240-fs pulses with 22-W average power from a mode-locked thi...	2002		137	5	12	11	8	4	**40**		**177**
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7	Absorption and luminescence of tetrahedral Co2+ ion in MgAl2...	1993		63	2	5	10	2	1	**20**		**83**
8	Yb3+-doped YVO4 crystal for efficient Kerr-lens mode locking...	2005		37	2	10	9	11	13	**45**		**82**
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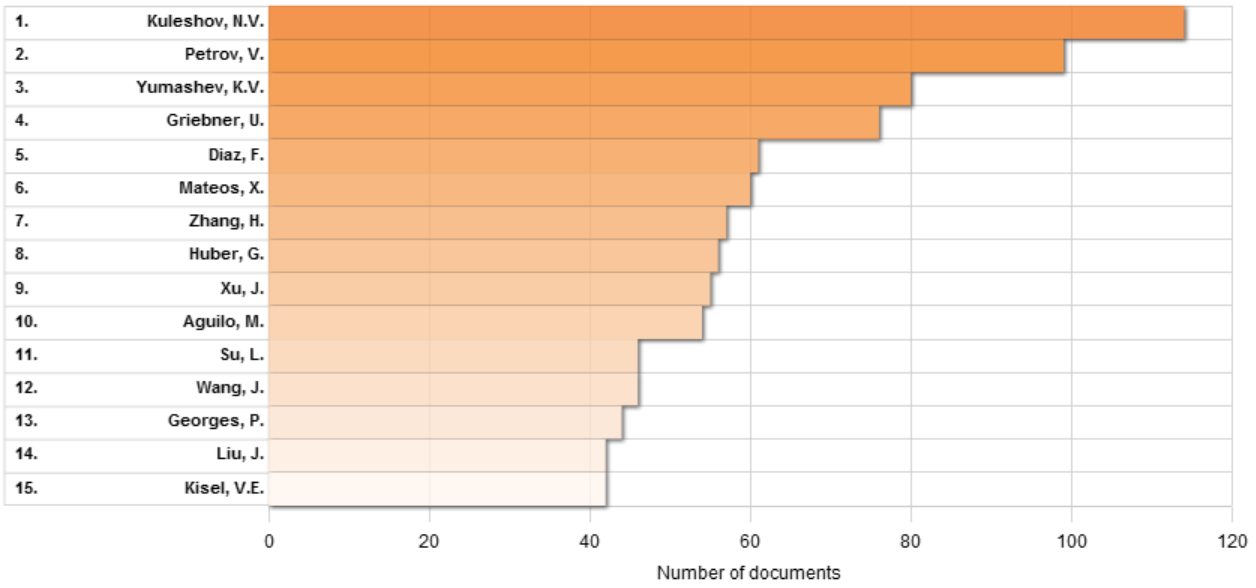

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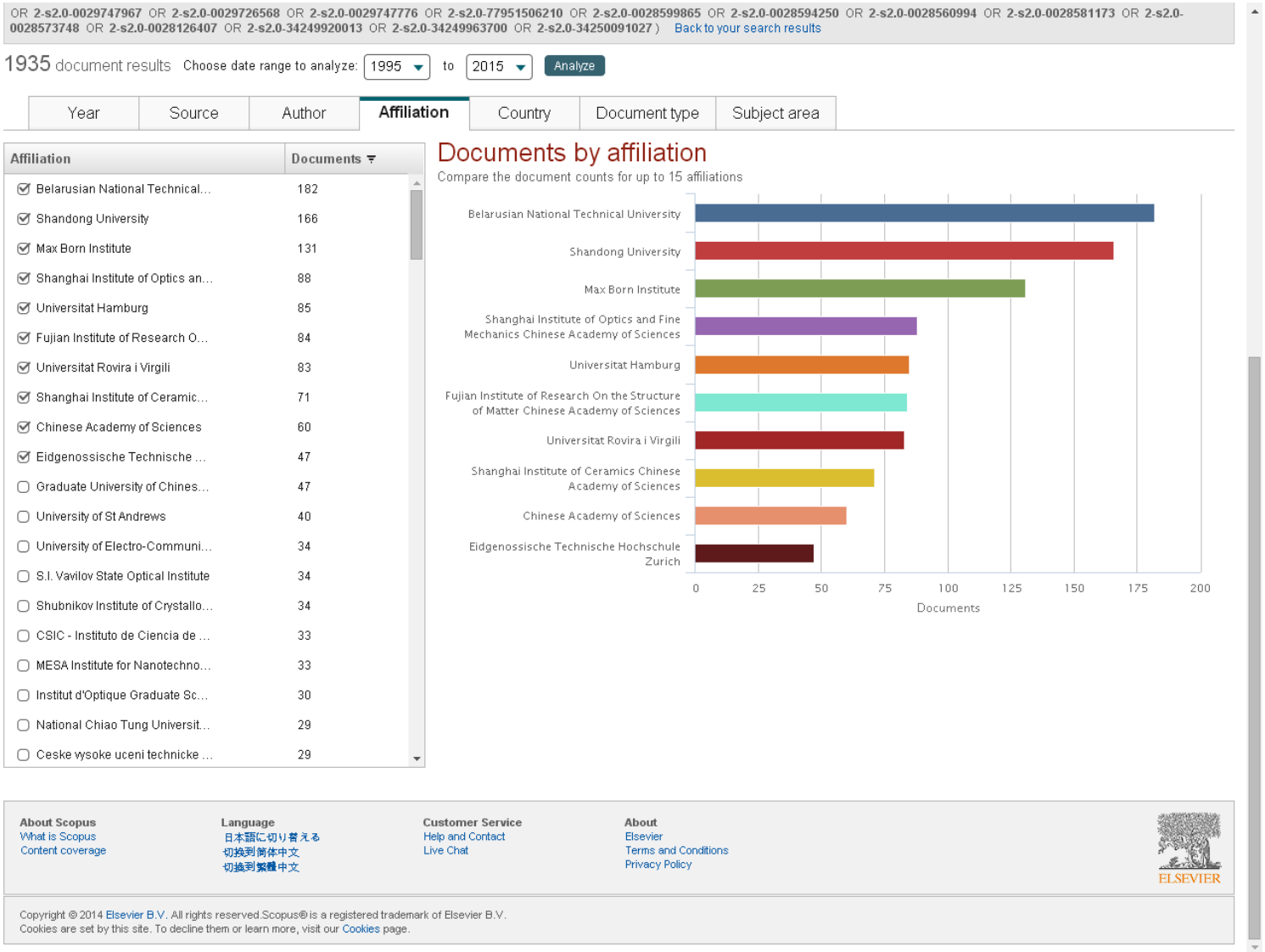

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Journal of Materials Science: Materials in Electronics

Volume 18, Issue SUPPL. 1, October 2007, Pages 293-297

New nonlinear optical and laser crystals of borate family (Conference Paper)

Leonyuk, N.I.[a], Wang, J.[b], Dawes, J.M.[c], Kuleshov, N.V.[d]

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[d] Institute for Optical Materials and Technologies, Belarussian National Technical University, Nezavisimosti ave. 65, bld. 17, Minsk 220013, Belarus

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Abstract

(Er,Yb):YAl $_3$(BO $_3$) $_4$ single crystals have been obtained using K $_2$Mo $_3$O $_{10}$ based flux by dipping seeded solution growth at a cooling rate of 0.2-5 °C/day at temperatures from 1060 °C to 1000 °C. The Er and Yb segregation coefficients vary from 0.80 to 1.02. A valuable technique for characterizing the non-linear performance of the crystal to identify the presence of twins in borate materials has been developed. Over 1.1 W of green emission was obtained from a diode-pumped Yb:YAB laser. Spectroscopic properties of Er,Yb:YAB crystals have been investigated leading to the demonstration of efficient continuous-wave (CW) and Q-switched diode-pumped (Er,Yb):YAB laser operation. © Springer Science+Business Media, LLC 2007.

Indexed keywords

Borate materials; Laser crystals; Nonlinear optical crystals

Engineering controlled terms: Characterization; Laser optics; Laser spectroscopy; Nonlinear optics; Single crystals

Engineering main heading: Borate minerals

ISSN: 09574522 **Source Type:** Journal **Original language:** English

DOI: 10.1007/s10854-007-9219-3 **Document Type:** Conference Paper

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Wu, H., Pan, S., Yu, H.
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Yang, Y., Pan, S., Li, H.
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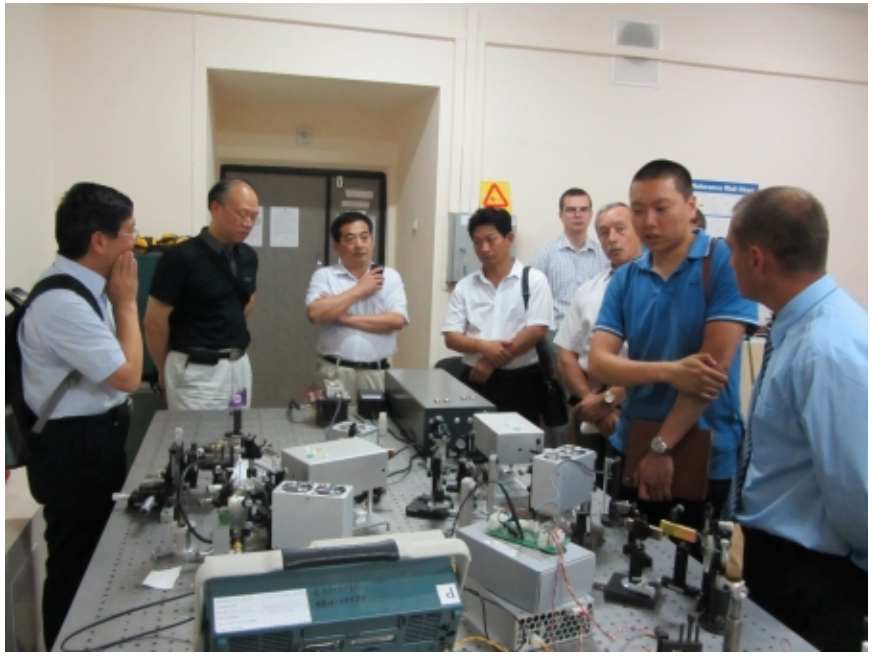

Рекомендации

Необходимо наладить тесные связи с китайскими учеными, прежде всего с исследователями из **Shandong University** (Китай, г. Цзинянь, State Key Laboratory of Crystal Materials, Shandong University, Ji'nan 250100, China), а также с **Shanghai Institute of Optics and Fine Mechanics** Chinese Academy of Sciences и **Fujian Institute of Research On the Structure of Matter Chinese** Academy of Sciences;

В Европе рекомендуем наладить связи с **Max-Born-Institut** für Nichtlineare Optik und Kurzzeitspektroskopieim Forschungsverbund, Berlin;

Продолжить публиковаться с международными соавторами в журналах: Optics Letters, Applied Physics B: Lasers and Optics, Journal of Luminescence Optics Communications

Подавать публикации в журналы: Nature Nanotechnology, Nature Photonics, Advances in Optics and Photonics and Photonics Reviews

Спасибо за внимание

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Юрик Инна Викторовна – зам. директора Научной библиотеки БНТУ

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03-04.12.2014
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