

IV 化学専攻

- ・基礎化学プログラム
- ・化学科

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WANGCHINGCHAI PEERAPAT		Photodissociation dynamics study of dimethylamine:CH ₃ and H products detection and theoretical calculations	

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Phase Behavior of Aqueous Solution of Poly(ethylene oxide)-Poly(propylene oxide) Alternating Multiblock Copolymer

YAN CHENTING

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Synthesis and Properties of New Cationic Nitrogen Radical Containing Compounds

SHANG RONG

Dian Agung Pangaribow

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Photochemical [2+2] Cycloaddition Reaction of Carbonyl Compounds with Danishefsky-Kitahara Diene
Danishefsky-Kitahara [2+2]

Dang Huy Hiep

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Fabrication of Paper-Based Microfluidic Devices using a Laser Beam Scanning Technique

Triyono Basuki

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¹³⁷Cs Migration from Sloped Forest Catchment to Water Body and Its Contribution to Air Dose Rate
¹³⁷Cs

Wang Yufeng

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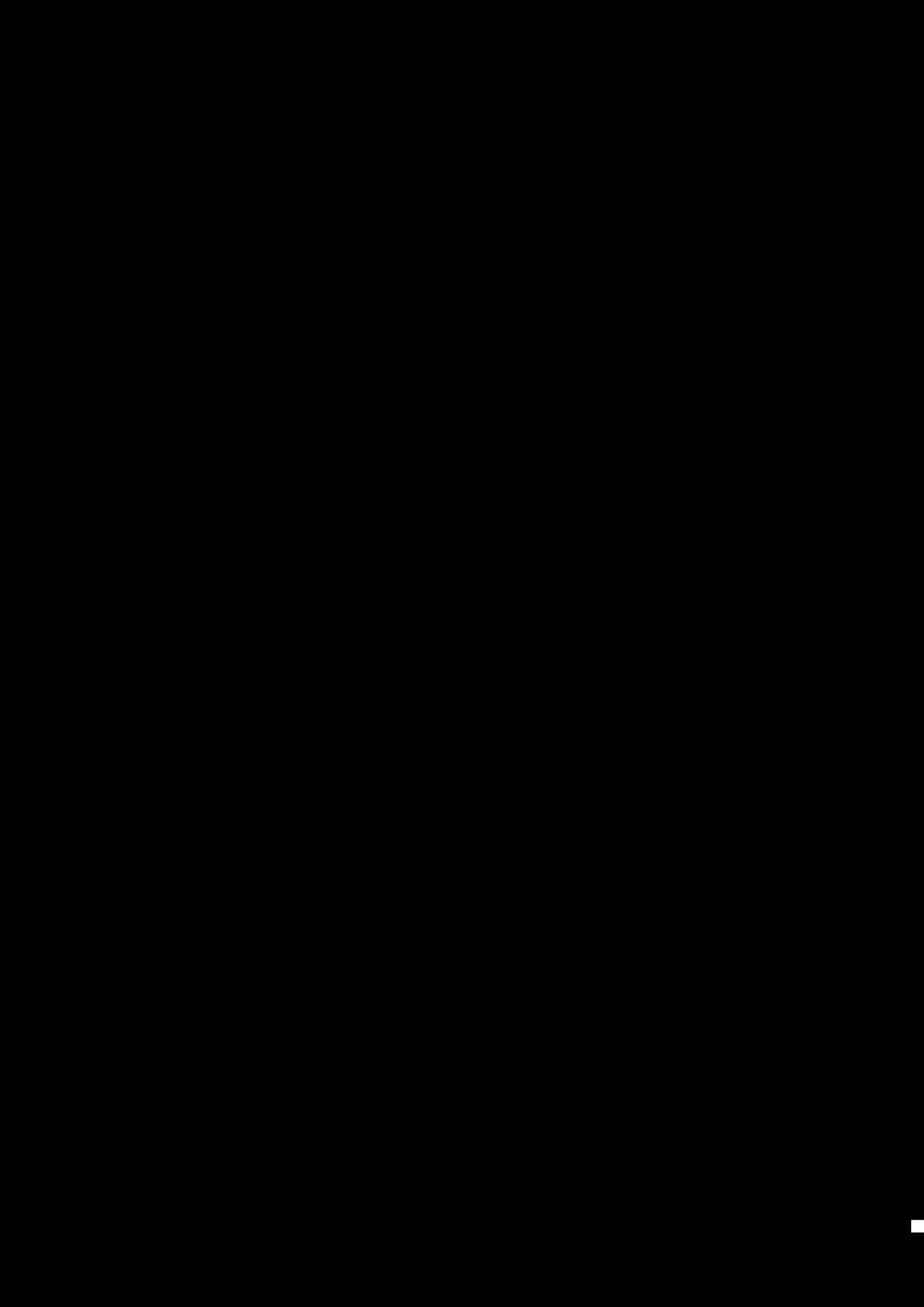
Mechanochemical synthesis of visible-light-active TiO₂ photocatalysts: relation between photocatalytic activities and disorder structures

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Bulky substituents and solvent effects on the lifetime of singlet cyclopentane 1,3-diyls with single bond character

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BASUKI TRIYONO	D3			
Pham Thi Thu Thuy	D3			2
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SMIRNYKH DMITRII	D2			
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Bekelesi Wiseman Chisale	D2			
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DOUNG DUYEN THI	D2			Hydroamination of alkenylamine catalyzed by chiral sulfonimide
Lin Qianghua	D2			Design and synthesis of indole-based caged compounds for two-photon uncaging
	D1			ROS
NGUYEN TUAN PHONG	D1			Oxetane Formation Using Two-Photon Excitation
NGUYEN HAI DANG	D1			Design, synthesis and photoproperties of caged neurotransmitter

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	D1		SHANG RONG	
HABIBUR RAHMAN	D1			
BANGUN SATRIO NUGROHO	D1			
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Sota Tainaka, Tomoyuki Ujihira, Mayuko Kubo, Motoki Kida, Daisuke Shimoyama, Satoru Muramatsu, Manabu Abe, Takeharu Haino, Takayuki Ebata, Fuminori Misaizu, Keijiro Ohshimo, Yoshiya Inokuchi (2020) Conformation of K⁺(Crown Ether) Complexes Revealed by Ion Mob

Spectroscopy of Dibenzo-18-Crown-6 Complexes with NH_4^+ , CH_3NH_3^+ , and $\text{CH}_3\text{CH}_2\text{NH}_3^+$. *J. Phys. Chem. A*, , 3228-3241.

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Shin-nosuke Kinoshita, Yu Harabuchi, Yoshiya Inokuchi, Satoshi Maeda, Masahiro Ehara, Kaoru Yamazaki, Takayuki Ebata: Experimental and theoretical study on the nonradiative decay process of cinnamates aimed for the development of effective sunscreen reagents. The 17th Nano Bio Info Chemistry Symposium 2020 12 , on-line conference

_____, _____, _____, Yuan Shi, _____, _____, _____ Structural characterization of hypervalent penta-coordinated carbon compounds by photodissociation spectroscopy and ion mobility mass spectrometry. 68 2020 5 ,

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Oleksiy Bogdanov
Prasanna S. Ghalsasi

Andrey Leonov

Goulven Cosquer

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Alexei N. Bogdanov, and Christos Panagopoulos (2020) The emergence of magnetic skyrmions. *Physics Today*, 73, 3, 44.

Takayuki Tajiri, Masaki Mito, Yusuke Kousaka, Jun Akimitsu, Jun-ichiro Kishine, and Katsuya Inoue (2020) Spontaneous magnetostriction effects in the chiral magnet CrNb₃S₆. *Phys. Rev. B*, 102, 014446.



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Andrey Leonov, “Three-dimensional skyrmionic networks in chiral magnets and liquidcrystals”, Available on demand, 2020 MRS Fall Meeting Symposium Sessions / Materials Theory, Characterization and Data Science, 2020.11.27-12.4 | Virtually, (Invited).

Jun Manabe, Katsuya Ichihashi, Daisuke Konno, Katsuya Inoue, Tomoyuki Akutagawa, Takayoshi Nakamura, Sadafumi Nishihara, “Band-filling control of [Ni(dmit)₂] salt by the solid state ion exchange function”, The 17th Nano Bio Info Chemistry Symposium and The 10th Japanese–Russian Seminar on Chemical Physics of Molecules and Polyfunctional Materials 2020.12.9-11 , On-line, _____, 2020.12.9 .

Andrey Leonov, “The properties of isolated chiral skyrmions”, International Conference MATHEMATICAL CHALLENGES OF QUANTUM TRANSPORT IN NANOSYSTEMS -PIERRE DUCLOS WORKSHOP, 2020.9.14-16 ITMO University, Saint Petersburg, Russia, On-line, Invited, 2020.9.16 .

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K. Inoue, Y. Ichiraku, Y. Kato, D. Smirnykh and K. Hirono, “Antiferromagnetic chiral soliton phase in molecule-based antiferromagnet”, The 1st Asian Conference on Molecular Magnetism ACMM2020, 2021.3.8-11, Fukuoka, JAPAN, Invited, 2021.3.8 .

, _____, “ _____ ”, “Establishment of New Carrier Doping Method for Molecular Crystals”, 2020 _____ 2020.8.2, On-line, _____ 2020.8.2 25

, _____, “ _____ ”, “Capturing organic ammonium ions in the solution by using the ion channel structure”, 2020 _____ 2020.8.2, On-line, _____ 2020.8.2

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Goulven Cosquer, The 17th Nano Bio Info Chemistry Symposium jointly held with The 10th Japanese-Russian Seminar on Chemical Physics of Molecules and Polyfunctional Materials, 2020 12 9 –11, Hiroshima, Japan.

, Molecular Chirality Asia 2020, 2020 10 31 –11 2, Tokyo, Japan, Organizing Committee Members.

, The 1st Asian Conference on Molecular Magnetism – 1st ACMM online, 2021 3 7 –10, Fukuoka, Japan, Local Organizing Committee Member.

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Andrey Leonov, Experimental Physics V, Center for Electronic Correlations and Magnetism, University of Augsburg, (Neel skyrmions in lacunar spinels)

Andrey Leonov, Department of Physics, University of Basel, 4056, Basel, Switzerland (Dynamic cantilever magnetometry)

Andrey Leonov, Faculty of Applied Sciences, Delft University of Technology, (SANS measurements on cubic helimagnets, oblique spiral and skyrmion states)

Andrey Leonov, Zernike Institute for Advanced Materials, University of Groningen (theoretical models for chiral magnets)

Andrey Leonov, Soft Materials Research Center and Materials Science and Engineering Program, University of Colorado, (torons, spherulites and other topological particle-like states in chiral liquid crystals)

Andrey Leonov, ITMO University, (numerical studies on topological barriers between different modulated states)

Andrey Leonov, IFW Dresden, (computational facilities, cluster simulations)

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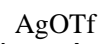
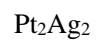


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- K. Mikami, S. Hui, K. Kubo, S. Kume, T. Mizuta, (2021) The $[\text{Ag}_{25}\text{Cu}_4\text{H}_8\text{Br}_6(\text{CCPh})_{12}(\text{PPh}_3)_{12}]^{3+}$: Ag_{13}H_8 silver hydride core protected by $[\text{CuAg}_3(\text{CCPh})_3(\text{PPh}_3)_3]^+$ motifs. *Dalton Trans.* , 5659-5665.
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D. H. Hiep, Y. Tanaka, H. Matsubara, S. Ishizaka (2020) Fabrication of Paper-Based Microfluidic Devices using a Laser Beam Scanning Technique. *Anal. Sci.*, (10), 1275-1278.

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H. Matsubara, K. Chida, H. Tanaka, M. Yoshimura, M. Aratono, N. Ikeda: Common black film stability and synergetic adsorption in ionic–nonionic mixed surfactant systems, Australia Japan Colloids Symposium 2020 (September 17-18, 2020, Online)

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T. Hirao, K. Fukutani

- J. Otsuki, T. Okumura, K. Sugawa, S.-i. Kawano, K. Tanaka, T. Hirao, T. Haino, Y. J. Lee, S. Kang, D. Kim, A Light-Harvesting/Charge-Separation Model with Energy Gradient Made of Assemblies of meta-pyridyl Zinc Porphyrins, *Chem. Eur. J.*, 2021, 27, 4053-4063.
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- N. Hisano, T. Hirao, T. Haino, *A Switchable Dual Redox-Responsive Supramolecular Polymer Possessing Bisporphyrin Cleft and Trinitrofluorenone*, 3rd G'L'owing Polymer Symposium in KANTO, online, 2020 11 , (oral presentation)
- T. Hirao, Y. Iwabe, N. Fujii, T. Haino, *Non-racemic helical polymers with fullerene array on the polymer backbone*, 3rd G'L'owing Polymer Symposium in KANTO, online, 2020 11 , (oral presentation)
- M. Morie, R. Sekiya, T. Haino, *Guest Binding Behaviors of the Calix[4]arene Based TripleStranded Helicate in Water*, the 17th Nano Bio Info Chemistry Symposium, online, 2020 12 , (oral presentation)
- I. Matsumoto, R. Sekiya, T. Haino, *Aggregation and disaggregation behavior of Nanographene*, the 17th Nano Bio Info Chemistry Symposium, online, 2020 12 , (oral presentation)
- M. Yoshida, T. Hirao, T. Haino, *Self-assembling behaviors of platinum(II) complexes possessing hydrophilic triethylene glycol chains*, the 17th Nano Bio Info Chemistry Symposium, online, 2020

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Haruna Fujimoto, Diasuke Shimoyama, Takehiro Hirao, Takeharu Haino, *Synthesis and Cooperative Molecular Recognition of Homoditopic Host Molecule with Rebek's Cavitands*, 101
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Associate editor of "Frontiers in Chemistry" journal in Supramolecular Chemistry. 2018
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In the investigation of metal-assisted B-B bond cleavage by boryl/borane ligand system for results, the synthesis and isolation of amino- and mestyl- derivatives of the azadiboriridine were successful which demonstrated that the π -donating effect of the amino-derivative is important to promote B-B cleavage upon metal complexation. The novel bisborane-phosphine ligand has been successfully derivatized. Preliminary results showed unprecedented water reduction reactivity. In addition, new anionic all-carbon ligated CCC-pincer Ir(III) was isolated and fully characterized, which showed multiple reversible redox waves which are now being investigated. Shang

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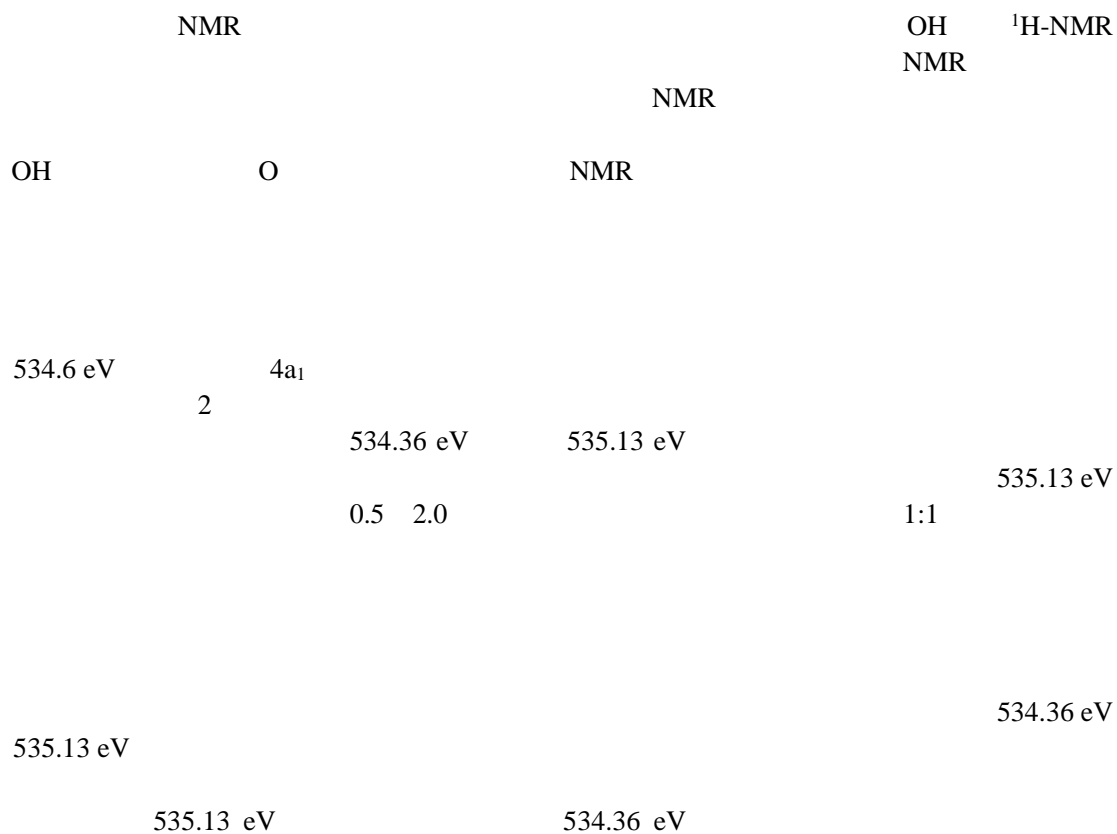
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A guest editor of a special issue of “*Supramolecular Polymer*” of the journal, “*Polymer*”.
 2016

Associate editor of “*Frontiers in Chemistry*” journal in Supramolecular Chemistry. 2018
 Chemical Physics Letters, Advisory Editorial Board 2016

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Australian Journal of Chemistry 2010

Editorial Board Member in *Advances in Physical Organic Chemistry* 2016

Guest Editor, Special issue “*Development and Application of Aryne Chemistry in Organic Synthesis*”, *Molecules* 2015

Guest Editor, Special issue “*Fundamentals and Application of Copper-based Catalysts*”,
Catalysts 2019

Editorial Board Member, *Catalysts* 2019

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12th Japanese-Russian workshop MolMag-2018, Astrakhan, Russia, 2018 9 17 21, Co-Chair

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11th Japanese-Russian workshop 2017 11 12 15 , Awaji Yumebutai International Conference Center, Awaji Island, Japan , Co-Chairperson

12th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2017) 2017 9 24 29 , Miyagi Zao Royal Hotel, Zao, Miyagi, Japan , Domestic Advisory Committee

SPring-8 2017 “SPring-8 ” 2017 9 4 5 ,

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Committee Members
The 1st Asian Conference on Molecular Magnetism – 1st ACMM online, 2021 3 7
10, Fukuoka, Japan, Local Organizing Committee Member
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Glasgow

Andrey Leonov Experimental Physics V, Center for Electronic Correlations and Magnetism,
University of Augsburg, (Neel skyrmions in lacunar spinels)

Andrey Leonov Department of Physics, University of Basel, 4056, Basel, Switzerland (Dynamic
cantilever magnetometry)

Andrey Leonov Faculty of Applied Sciences, Delft University of Technology, (SANS
measurements on cubic helimagnets, oblique spiral and skyrmion states)

Andrey Leonov Zernike Institute for Advanced Materials, University of Groningen
(theoretical models for chiral magnets)

Andrey Leonov Soft Materials Research Center and Materials Science and Engineering
Program, University of Colorado, (torons, spherulites and other topological particle-like
states in chiral liquid crystals)

Andrey Leonov ITMO University, (numerical studies on topological barriers between different
modulated states)

Andrey Leonov IFW Dresden, (computational facilities, cluster simulations)

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International Symposium on “Diversity of Chemical Reaction Dynamics”, Organizing
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	Development of a new Frustrated Lewis Pair bearing two Lewis acidic borane centers 2 FLP	
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	Q-	
	1-Decyl-3-methylimidazolium Tetrafluoroborate /	
	- in vivo / in vitro	
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2-5-1 Chem

