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- 1P02** K. Tomer, J. Rump, P. Palui, A. C. Filippou (University of Bonn)
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- 1P03** H. Nagashima (Kyushu University)
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- 1P04** S. P. Kutumov,¹ D. N. Kholodkov,^{1,2} I. K. Goncharova,^{1,2} A. V. Arzumanyan^{1,2} (¹A. N. Nesmeyanov Institute of Organoelement Compounds, RAS, ²Topchiev Institute of Petrochemical Synthesis, RAS)
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- 1P06** K. Kobayashi, T. Kuwabara (Ochanomizu University)
Substituent effects on hyperconjugative antiaromaticity in dibenzosilepinyl dianions
- 1P07** H. Kawabe, T. Imagawa, A. Oguri, H. Yoshida, M. Nakamoto (Hiroshima University)
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- 1P08** S. Kobayashi,¹ K. Tamao,² T. Sasamori¹ (¹University of Tsukuba, ²TOYOTA Physical & Chemical Research Institute)
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- 1P09** S. Kobosil, S. Yao, M. Drieß (Technische Universität Berlin)
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- 1P10** M. Klingsporn, S. Kobosil, S. Yao, M. Drieß (Technische Universität Berlin)
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- 1P11** B. E. Frank, K. M. Frankiewicz, T. F. Fässler (Technical University of Munich)
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- 1P12** A. Kaga, H. Yorimitsu (Kyoto University)
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- 1P14** S. Salahudeen, H. Fehrmann, E. Mejía (Leibniz Institute for Catalysis)
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- 1P15** M. Nakamura,¹ M. Matsuyama,^{1,2} A. Masuyama,² S. Inada,³ Y. Kusaka,³ S. Watase¹ (¹Osaka Research Institute of Industrial Science and Technology, ²Osaka Institute of Technology, ³SEKISUI CHEMICAL Group)
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- 1P16** İ. Yati (Denge Kimya ve Tekstil San. Tic. A.Ş.)
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- 1P21** S. Nonaka,¹ K. Shikinaka,² T. Hirai,³ Y. Kaneko¹ (¹Kagoshima University, ²AIST, ³Osaka Institute of Technology)
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- 1P30** BJ. Zhao, R. X. Shi, M. Y. Wu, X. L. Cai, W. F. Yu, X. Y. Xu, Y. X. Guo, Y. H. Zhu, Q. Z. Zhu (Shandong University)
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- 1P31** N. Tanihata, K. Yamamoto, T. Gunji (Tokyo University of Science)
Preparation of polysiloxane-based porous membranes by non-solvent induced phase separation
- 1P32** H. Bashomatsu,¹ T. Houya,¹ T. Matsuno,¹ S. Sakamoto,² A. Shimojima¹ (¹Waseda University, ²Sony Group Corporation)
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- 1P35** T. Yamanaka,¹ N. Tarutani,¹ K. Katagiri,¹ K. Inumaru,¹ Y. Takeoka² (¹Hiroshima University, ²Nagoya University)
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- 1P36** I. Rana, N. Moriyama, H. Nagasawa, T. Tsuru, M. Kanezashi (Hiroshima University)
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- 1P38** Y. Junke, N. Takeda, M. Unno, Y. Liu (Gunma University)
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- 1P39** F. Klotz, F. Langenohl, C. Strohmann (TU Dortmund)
Synthesis and structure of (Si)-chiral aminoorganosilanol
- 1P40** I. K. Goncharova,^{1,2} A.V. Arzumanyan^{1,2} (¹A.V. Topchiev Institute of Petrochemical Synthesis, RAS, ²A.N. Nesmeyanov Institute of Organoelement Compounds, RAS)
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- 1P41** S. A. Filatov,^{1,2} I. K. Goncharova,² A. V. Arzumanyan² (¹A.N. Nesmeyanov Institute of Organoelement Compounds, RAS, ²National University of Oil and Gas «Gubkin University»)
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- 1P42** A. P. Drozdov,^{1,2} I. K. Goncharova,^{1,2} A. V. Arzumanyan^{1,2} (¹A. N. Nesmeyanov Institute of Organoelement Compounds, RAS, ²A.V. Topchiev Institute of Petrochemical Synthesis, RAS)
White-light initiated [Mn]-catalyzed *anti*-Markovnikov hydrosilylation
- 1P43** S. Ichii, Y. Tonomura, A. Kiyomori (Shin-Etsu Chemical Co., Ltd.)
Development of a silica-supported catalyst for the synthesis of cyclic carbonates from epoxides and CO₂
- 1P44** Y. Tanaka, N. Takeda, M. Unno, Y. Liu (Gunma university)
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- 1P45** K. Fujii, K. Sekine, Y. Kuninobu (Kyushu University)
Gold-catalyzed cyclization reaction of arylalkynes for synthesis of silicon-containing cyclic compounds
- 1P46** H. Tanimoto,¹ D. Toumori,² K. Kakiuchi² (¹University of Toyama, ²Nara Institute of Science and Technology)
Synthesis of pentacoordinate dilactone germanium
- 1P47** A. Kayama, R. Akashi, M. Tokuda, N. Takeda, M. Unno, Y. Liu (Gunma University)
Synthesis of new functionalized bat siloxanes
- 1P48** Q. Chen, T. Wu, K. Yuan, G. Lai (Hangzhou Normal University)
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- 1P49** R. Bashkurov, N. Fridman, D. Bravo-Zhivotovskii, Y. Apeloig (Technion-Israel Institute of Technology)



The first planar, not twisted, distannene – a structural alkene analog. Synthesis, isolation and X-ray crystallography characterization

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Reactivity of 2-germapropadiene

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Synthesis and characterization of Ge=E multiple-bonded species

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Exploring silylene generation from silylborane with leaving group

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1P55 S. Stigler,¹ T. Thorwart,² L. Greb,² S. Inoue¹ (¹Technische Universität München, ²Ruprecht-Karls-Universität Heidelberg)

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1P56 S. Kurokawa, K. Ota, T. Matsuo (Kindai University)

Low-valent silicon compounds with bulky xMEind groups

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Synthesis and electrochemical properties of poly[(1,1-disubstituted-3,4-diphenyl-2,5-silolene)-co-(ethynylene)]

1P59 S. N. Ardabevskaia,^{1,4} E. S. Chamkina,² I. Y. Krasnova,² S. A. Milenin,^{1,4} E. A. Sukhova,² K. L. Boldyrev,² D. A. Khanin,² A. V. Bakirov,^{1,3} O. A. Serenko,² Z. B. Shifrina,² A. M. Muzafarov¹ (¹Enikolopov Institute of Synthetic Polymeric Materials, ²Nesmeyanov Institute of Organoelement Compounds, RAS, ³National Research Center “Kurchatov Institute”, ⁴Tula State Lev Tolstoy Pedagogical University)

The synthesis of hybrid dendrimers composed of a carbosilane core and aromatic shell by CuAAC

1P60 N. Watanabe,^{1,2} H. Imoto,¹ K. Naka¹ (¹Kyoto Institute of Technology, ²JNC Petrochemical Corporation)

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1P61 K. Bakanov,¹ S. Ardabevskaia,^{1,2} K. Bezlepkina,^{1,2} K. Klokova,¹ A. Krupnin,³ A. Buzin,¹ D. Khanin,⁴ S. Kostrov,¹ A. Bakirov,^{1,3} F. Drozdov,^{1,2} S. Chvalun,^{1,3} A. Muzafarov,^{1,4} E. Kramarenko,^{1,4} S. Milenin^{1,2} (¹Enikolopov Institute of Synthetic Polymeric Materials of Russian Academy of Sciences, ²Tula State Lev Tolstoy Pedagogical University, ³National Research Centre “Kurchatov Institute”, ⁴A.N. Nesmeyanov Institute of Organoelement Compounds, RAS)

Synthesis and properties of poly(urethane-siloxane) copolymers via Cu(I)-catalyzed azide-alkyne click reaction and its application in 3d printing

1P62 K. Ito,¹ H. Oikawa,¹ S. Hiraki,¹ M. Yamahiro² (¹JNC Petrochemical Corporation, ²Japan Advanced Institute of



Science and Technology)

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Development of donor-acceptor-type molecules bridged by oligosilanes prepared by iterative synthesis

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Diversity-oriented synthesis of silylethanol and their application as hydrophobic building blocks in medicinal chemistry

1P66 O. Semeshko,^{1,2} I. Melnyk¹ (¹Institute of Geotechnics SAS, ²Kherson National Technical University)

The functionalized silica nanoparticles with adsorbed europium, cerium and lanthanum with selective fluorescence as sensor for doxycycline

1P67 L. X. Wang, Q. Z. Zhu (Shandong University)

Study on properties of two-component addition silicone gel

1P68 Y. Kanematsu,^{1,2,3} K. Oshima,¹ Y. Takano,³ T. Ishimoto,^{1,2} J. Ohshita^{1,2} (^{1,2}Hiroshima University, ³Hiroshima City University)

Development of machine learning web application for computer-aided synthesis of PSQ-based RO membrane

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- 2P02** S. Iwabuchi, S. Takahashi, N. Kano (Gakushuin University)
Synthesis and reactivity of 1,3-dithian-2-ylsilicate
- 2P03** A. Kawanishi, S. Takahashi, A. Ishii, N. Nakata (Saitama University)
Coordination behavior of sterically demanding iminophosphonamido chlorosilylene towards group 9 metal complexes
- 2P04** H. Sato, S. Takahashi, A. Ishii, N. Nakata (Saitama University)
Reaction of sterically demanding iminophosphonamido-silylene with anionic transition metal carbonyl complexes: Approach to silylidene-transition metal complexes
- 2P05** K. Sato, T. Sasamori (University of Tsukuba)
Synthesis of functionalized 1,2,4,5-tetrasilacyclohexanes and the attempted application towards oligosilyl-cage compounds
- 2P06** T. Muraoka, A. Yamamoto, K. Yamane, K. Ueno (Gunma University)
Reactions of silylene tungsten complexes with sulfur-donor reagents: Formation of three-membered W-Si-S cycle
- 2P07** Y.-L. Hsieh, C.-W. Chiu (National Taiwan University)
Chiral bis(oxazoline) ligand stabilized germylium-ylidene and stannylum-ylidene catalysts
- 2P08** Y.-H. Tsai, K.-H. Chen, C.-W. Chiu (National Taiwan University)
Synthesis and catalytic reaction of group 14 element coordinated ruthenium(II) complex
- 2P09** S. Morisako, K. Isoda (Sagami Chemical Research Institute)
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- 2P10** R. Bashkurov, N. Fridman, D. Bravo-Zhivotovskii, Y. Apeloig (Technion-Israel Institute of Technology)
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- 2P11** K. Koh, H. Sohn (Chosun University)
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Non-porous, uniform size spherical silica particles
- 2P14** R. Nagai, K. Yamamoto, T. Gunji (Tokyo University of Science)
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- 2P15** K. Horata, T. Yoshio, Y. Adachi, J. Ohshita (Hiroshima University)
Preparation of polysilsesquioxane-based CO₂ separation membrane with thermally degradable succinic anhydride units
- 2P16** K. Bezlepkina,¹ S. Ardabevskaia,^{1,2} K. Klokova,¹ A. Ryzhkov,¹ D. Migulin,¹ F. Drozdov,¹ G. Cherkaev,¹ A.



Muzafarov,¹ S. Milenin^{1,2} (¹Enikolopov Institute of Synthetic Polymeric Materials, RAS, ²Tula State Lev Tolstoy Pedagogical University)

Synthesis of azide-containing polysiloxanes of various structures and their functionalization via the CuAAC reaction

2P17 I. Belikova,¹ K. Bezlepkina,¹ S. Ardabievskaya,^{1,2} K. Klokova,¹ V. Aristova,¹ D. Migulin,¹ F. Drozdov,¹ S. Milenin^{1,2} (¹Enikolopov Institute of Synthetic Polymeric Materials, RAS, ²Tula State Lev Tolstoy Pedagogical University)

Synthesis of functional silicon organic monomers and polymers via heterogeneous CuAAC process

2P18 V. Aristova,¹ K. Bezlepkina,¹ K. Klokova,¹ S. Ardabievskaya,^{1,2} G. Cherkaev,¹ F. Drozdov,¹ S. Milenin^{1,2} (¹Enikolopov Institute of Synthetic Polymeric Materials, RAS, ²Tula State Lev Tolstoy Pedagogical University)

Synthesis and self-catalytic hydrolysis of triazole-modified organosilanes in environmentally friendly conditions

2P19 N. Alizadeh, P. M. Zelisko (Brock University)

New routes in biocatalysis: Exploring the impact of grafting silicones onto proteins/enzymes

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Preparation of polysilsesquioxane-based CO₂ separation membrane with thermally degradative urea units

2P21 Z. Lin,^{1,2} Y. Adachi,¹ J. Ohshita,¹ K. Shiraishi² (¹Hiroshima University, ²Kindai University)

Preparation of transparent and hydrophilic polysilsesquioxane films with hydroxyethylurea units and applications as antifogging materials

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Development of new water separation membranes using ethylene glycol-based PSQ

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Improved thermal insulation of polysilsesquioxane films by introducing bulky substituents

2P27 K. Tsutsui,¹ S. Takase,¹ H. Koga^{1,2}, Y. Adachi¹, J. Ohshita¹ (¹Hiroshima University, ²Mazda Motor Corporation)

Influence of cross-linking and thermodegradable groups on polysilsesquioxane thermal insulation properties

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Synthesis and characterization of PVO siloxane-silicon quantum dots composite for high refractive index

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Synthesis of bright silicon quantum dots using hydrogen silsesquioxane polymer as precursor

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Solvent engineering for achieving highly efficient silicon quantum dot LEDs

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- 2P33** E. Shin, E. Choi, H. Sohn (Chosun University)
One-pot synthesis of water-soluble silicon quantum dots using Naph/Li as a catalyst
- 2P34** K. Ishida, H. Ishida (SEKISUI CHEMICAL CO., LTD.)
The effect of excess dispersant for viscosity and thermal conductivity on high-concentrated Al₂O₃/PDMS composite
- 2P35** K. Sumida, K. Saitow (Hiroshima University)
Green photoluminescent silicon quantum dots: Surface ligands and stabilities
- 2P36** T. Hikino, H. Mochizuki, T. Matsuno, A. Shimojima (Waseda University)
Synthesis of nanoporous aluminosilicates from siloxane-based building blocks consisting of Q and D units
- 2P37** G. E. Kubrin,^{1,2} D. N. Kholodkov,^{1,2} A. V. Arzumanyan^{1,2} (¹A.N. Nesmeyanov Institute of Organoelement Compounds, RAS, ²A.V. Topchiev Institute of Petrochemical Synthesis, RAS)
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- 2P39** S. Tatewaki, M. Tokuda, M. Katano, N. Takeda, M. Unno, Y. Liu (Gunma University)
Synthesis of laddersiloxanes with reactive substituents on bridged silicon atoms
- 2P40** H. Endo (Dow Toray Co., Ltd.)
Synthetic study of alkoxy silane with multiple tertiary alkoxy groups
- 2P41** J. Li,¹ Y. Matsumoto,¹ I. Sasaki,¹ T. Ohmura,² M. Sugimoto¹ (¹Kyoto University, ²Kyoto Institute of Technology)
Novel applications of silylboronic esters functionalized with a diethylamino group on the silicon atom
- 2P42** M. Inagaki, Y. Okamoto, T. Torigoe, T. Ohmura (Kyoto Institute of Technology)
Silylene transfer from (aminosilyl)boronic ester to 1,4-diaryl-1,3-butadienes and their derivatives forming silicon-containing rings through carbon skeletal reorganization
- 2P43** R. Takeuchi, K. Ishida, N. Sakai (Tokyo University of Science)
The synthesis of thioesters from acyl fluorides and thiosilanes
- 2P44** A. Kon,¹ R. Kawazu,² K. Mine,² Y. Kuninobu,² T. Ohmura,¹ T. Torigoe¹ (¹Kyoto Institute of Technology, ²Kyushu University)
NNSi and PNSi pincer ligands for the iridium-catalyzed C(sp³)-H borylation
- 2P45** Y. Song,¹ T. Ohmura,² M. Sugimoto¹ (¹Kyoto University, ²Kyoto Institute of Technology)
Iridium catalyzed silylene transfer through extrusion of R₂Si: from Ar-R₂Si-H linkage
- 2P46** S. Inoue, R. Sekiya, T. Haino (Hiroshima University)
Synthesis and molecular recognition of Si-bridged trisresorcinarene
- 2P47** Y. Ueno, K. Ota, T. Matsuo (Kindai University)
Reactivity of diarylstannylenes towards chalcogens



- 2P48** K. Wada,¹ S. Kudo,¹ S. Furukawa,¹ T. Murata,² M. Abe,² N. Nakatani,³ M. Saito¹ (¹Saitama University, ²Hiroshima University, ³Tokyo Metropolitan University)
Reaction of stannacyclopentadienylidenes with small molecules
- 2P49** C. Wang, Y. Adachi, J. Ohshita (Hiroshima University)
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- 2P50** J. Christmann, S. Dehnen (Karlsruhe Institute of Technology)
(Organosilyl)methyl-functionalised adamantane-type organotin hetero-chalcogenide clusters
- 2P51** N. Takahashi, K. Ota, T. Matsuo (Kindai University)
Synthetic studies of halosilylenes bearing bulky ring group
- 2P52** T. Takeuchi,¹ M. Kiuchi,^{1,2} S. Yoshimura¹ (¹Osaka University, ²Cerast Laboratory)
Ionization and fragmentation of organosilicon for ion beam synthesis of silicon compounds in vacuum processes
- 2P53** N. Sakurata, T. Koike, S. Ishida, T. Iwamoto (Tohoku University)
Synthesis and reactivity of an Si=B species containing a bromo substituent on an unsaturated silicon atom
- 2P54** T. Ishikawa, N. Akasaka, S. Ishida, T. Iwamoto (Tohoku University)
Generation of a valence isomer of a tetrasilole-1,3-dienide
- 2P55** K. Yamada, Y. Adachi, J. Ohshita (Hiroshima University)
Introduction of silicon and boron into overcrowded bistricyclic aromatic ene and their chromic properties
- 2P56** K. Koh, S. Kim, J.-D. Lee, H. Sohn (Chosun University)
Synthesis and optical characterization of highly fluorescent conjugated 2,5-polysiloles containing cavity
- 2P57** T. Koyama,¹ Y. Noguchi,¹ Y. Miyaji,¹ K. Matsukawa² (¹Sakamoto Yakuhin Kogyo Co., Ltd., ²Kyoto Institute of Technology)
Development of a novel anti-fog coating material using polyglycerol-based alkoxy silanes SYntech[®] SI-TE12
- 2P58** D. Katsura,¹ T. Maeda,¹ K. Kanamori,² T. Yamamoto,³ J. Ohshita⁴ (¹Mazda Motor Corporation, ²Kyoto University, ³Kogakuin University, ⁴Hiroshima University)
Poly(methylsiloxane) xerogel with sound absorption mechanism by vibration of solid phase
- 2P59** T. Maeda,¹ T. Hamada,² D. Katsura,¹ J. Ohshita³ (¹Mazda Motor Corporation, ²Nagoya University, ³Hiroshima University)
Highly durable antifogging polysilsesquioxane materials containing hydrophilic groups
- 2P60** Y. Glagovsky, Y. Goldshtein, N. Fridman, D. Bravo-Zhivotovskii, Y. Apeloig (Technion-Israel Institute of Technology)
Synthesis of the first isolated group 14 heavy enolate in both the keto and enol forms
- 2P61** Y. Goldshtein, D. Bravo-Zhivotovskii, Y. Apeloig (Technion-Israel Institute of Technology)
Unusual reactivity of germene (R₃Si)₂Ge=2-Ad towards methanol: Transfer hydrogenation instead of addition reaction
- 2P62** N. Tortos, O. Garcia, B. P. S. Chauhan (William Paterson University)
Polymerization of aromatic silanes using platinum nanoparticles as a catalyst
- 2P63** Y. Kim, S. Lee, H. Sohn (Chosun University)
Comparing the aggregation-induced emission enhancement effects of π - σ^* and σ - σ^* conjugation on siloles and



their application in explosives detection

2P64 T. Ikeda, A. Kuroda (Hiroshima University)

Biogenic silica formation in bacterial cells

2P65 M. Kunz, E. Mejia (Leibniz-Institute for Catalysis e.V.)

Life cycle assessment of RTV-1 silicone sealants

2P66 K. Ito,¹ J. Ohshita,² T. Hirokawa³ (¹Seawater Assessment Technologies Research Institute, ^{2,3}Hiroshima University)

Simultaneous determination of IO_3^- , Br^- , NO_2^- , NO_3^- , I^- in seawater by ion chromatography

2P67 M. R. K. Ramachandran,¹ T. Sasamori,² R. Streubel¹ (¹Rheinische Friedrich-Wilhelms-Universität Bonn, ²University of Tsukuba)

Synthesis and reactions of 1,4-dihydro-1,4-phosphasilines