

JOURNAL OF THE CHEMICAL SOCIETY

Chemical Communications

Number 4
1994

CONTENTS

Andreas Werner, Willy Friedrichsen	365	A Liquid Crystalline [3]Ferrocenophane
Osamu Ishitani, Nobuyo Inoue, Kazuhide Koike, Takashi Ibusuki	367	A Novel Type of Hydride-transfer Photocatalysis by Ru ^{II} -Pyridine Complexes: Regiocontrolled Reduction of an NAD(P) Model Compound by Triethylamine
Kevin J. Drost, V. Pushkara Rao, Alex K.-Y. Jen	369	A New Synthetic Approach for the Incorporation of Highly Efficient Second-order Nonlinear Optical Chromophores containing Tricyanovinyl Electron Acceptors into Methacrylate Polymers
John Homer, Michael C. Perry	373	New Method for NMR Signal Enhancement by Polarization Transfer, and Attached Nucleus Testing
Youheng Shi, Zhihui Zhang	375	A New Water-soluble Host Molecule, a <i>p</i> - <i>tert</i> -Butylcalix[8]arene bearing Polyoxyethylene Chains
Richard A. Henderson, Kay E. Oglieve	377	Protonation of the Iron-Sulfur Core in [Fe ₄ S ₄ X ₄] ²⁻ (X = Cl or Br): Chemical Precedent for the Elementary Reaction of the Hydrogenases and Nitrogenases
Robert H. Pauze, David P. Waller, David C. Whritenour, Michael J. Zuraw	381	Synthesis and Characterization of Alkali-stable Bridged Phthalein Dyes and an Investigation of the Regiochemical Effects on their Near-IR Absorbance
Colin B. Reese, Louise H. K. Shek, Zhengyun Zhao	385	Preparation of Activated Nucleotides and their Phosphorothioate and Phosphorodithioate Analogues
David A. Leigh, Patrick Linnane, Robin G. Pritchard, Graham Jackson	389	Unusual Host-Guest π -Arene \cdots H Bonding in a 'Hooded' Cavitand: the First Solid-state Structure of a Calix[4]resorcinarene with Underivatised Hydroxy Groups
Alois Haas, Michael Pryka	391	Synthesis and Characterisation of Tellurium-containing Chalcogen-Nitrogen Heterocycles
István Schön, Olga Nyéki	393	Unprecedented Transformation of Aspartyl Peptides by Conjugative Degradation
Nozomu Sakai, Kyoko Nozaki, Hidemasa Takaya	395	Asymmetric Hydroformylation of 1,2-Disubstituted Olefins Catalysed by Chiral Phosphinephosphite-Rhodium(I) Complexes
Simon N. Davey, David A. Leigh, Andrew E. Moody, Lee W. Tetler, Frances A. Wade	397	C ₆₀ -Azacrown Ethers: the First Monoaminated Fullerene Derivatives
P. Mayon, M. N. Euvrard, N. Moufid, Yves Chapleur	399	Diastereoselective Anionic and Radical Conjugate Addition on a Chiral Enone: a Route to Multichiral Arrays
Uta Bilow, Martin Jansen	403	Electrocrystallisation and Crystal Structure Determination of Ph ₄ PC ₆₀ ·Ph ₄ PCl
Richard A. Bissell, Aiden J. Bryan, A. Prasanna de Silva, Colin P. McCoy	405	Fluorescent PET (Photoinduced Electron Transfer) Sensors with Targeting/Anchoring Modules as Molecular Versions of Submarine Periscopes for Mapping Membrane-bounded Protons
Didier Pilette, Samuel Moreau, Hubert Le Bozec, Pierre H. Dixneuf, John F. Corrigan, Arthur J. Cartty	409	Novel Behaviour of Dialkylamino-substituted Propargylic Alcohols in Reactions with Arene Ruthenium(II) Complexes
Michael Aizenberg, David Milstein	411	Electrophilic Ligand Abstraction from Electron-rich Iridium(I) Complexes with Me ₃ SiOTf; Evidence for Direct Ligand Attack
Hans-Jörg Schneider, Manxue Wang	413	Associations with Porphyrins in Water: Quantification by Constant Free Energy Increments
Ernest W. Della, Carl H. Schiesser	417	Hyperconjugation in Strained Bridgehead Cyclobutyl Cations: an <i>Ab initio</i> Study of Bicyclo[1.1.1]pent-1-yl Cubyl and Norcubyl Cations
Alexandra M. Z. Slawin, Joanna Ward, David J. Williams, J. Derek Woollins	421	X-Ray Structure of a Potassium-Sulfur Ladder Polymer with Strong K \cdots Aryl Stabilising Interactions
A. Ajayaghosh, Soney C. George, M. V. George	423	Novel Phototransformation of <i>o</i> -Nitrobenzylic Polymers to Azopolymers
David L. Hughes, Saad K. Ibrahim, Hapipah Moh'd Ali, Christopher J. Pickett	425	Interconversion of CN and CNH ₂ Ligands: Electrosynthesis and X-ray Crystallographic Structures of <i>trans</i> -[W(CNH ₂)Cl(dppe) ₂] and <i>trans</i> -[W(CNH ₂)Cl(dppe) ₂][BF ₄ ⁻] (dppe = Ph ₂ PCH ₂ CH ₂ PPh ₂): Aminocarbyne (=C-NH ₂) or Iminomethylenium (=C=NH ₂ ⁺) Ligands?

Motonari Shibakami, Akira Sekiya	429	Crystal Structures of Cholic Acid-Aniline and -3-Fluoroaniline Inclusion Compound; Fluorine Atom Effect on Channel and Hydrogen Bonding Pattern
John P. Fackler, Jr., Richard J. Staples, Zerihun Assefa	431	Synthesis and Structural Characterisation of $[(pta)_3Au]_2Au_2(i\text{-mnt})_2 \cdot 0.5Me_2CO \cdot 0.5MeCN$; an example of Unsupported $Au^{\text{I}} \cdots Au^{\text{I}}$ Interactions with $[Au(pta)_3]^+$, giving a Non-linear Tetrานuclear Chain ($pta =$ phosphatriazaadamantane, $i\text{-mnt} = [S_2C_2(CN)_2]^{2-}$)
Abdellaziz Gorfti, Michèle Salmain, Gérard Jaouen	433	Novel <i>N</i> -succinimidyl and <i>N</i> -Sulfosuccinimidyl Organotungsten Reagents for the Labelling of Biological Systems
Take-aki Mitsudo, Shi-Wei Zhang, Yoshihisa Watanabe	435	Ruthenium Complex-catalysed Dimerization of Norbornadiene to Pentacyclotetradecadiene
Takumi Watanabe, Tomio Takeuchi, Masami Otsuka, Kazuo Umezawa	437	Total Synthesis of Dephostatin, a Novel Protein Tyrosine Phosphatase Inhibitor
René Beugelmans, Jieping Zhu, Nicolas Husson, Michèle Bois-Choussy, Girij Pal Singh	439	The First Examples of S_NAr -based Macrocyclisation: Synthesis of Model Carboxylate-Binding Pockets of Vancomycin
Alessandro Padova, Stanley M. Roberts, Daniele Donati, Alcide Perboni, Tino Rossi	441	Carbon-Carbon Bond Formation at the C-4 Position of an Azetidin-2-one Ring by Intermolecular Radical Coupling Reactions: a Route to Tribactams
Masatoshi Murakata, Kohei Yamada, Osamu Hoshino	443	Oxidative Cyclisation of <i>o</i> -Phenolic Oxime-acid Derivatives using Hypervalent Iodine Reagent: Asymmetric Induction at the γ -Position to the Carbonyl Group of Chiral <i>o</i> -Phenolic Oxime-Ester
Francesco De Angelis, Andrea Scaloni, Valerio Caciagli, Antonio S. Verdini	445	Synthesis of a Toxic Octapeptide from the Larvae of Sawfly
Makoto Kitano, Noboru Koga, Hiizu Iwamura	447	Exchange Interaction in Hybrid Spin Systems: Chloro- <i>meso</i> -tetraphenylporphyrinatochromium(III) Derivatives ligated with 3- and 4-(<i>N</i> -Oxy- <i>N</i> - <i>tert</i> -butylamino)pyridines
Tony K. M. Shing, Wing-Chuen Fung, Ching-Hung Wong	449	Ring-selective Syntheses of Homochiral Oxepanes and Tetrahydropyrans from Carbohydrates via Intramolecular Nitrone or Nitrile Oxide Cycloadditions
Hiroshi Sugimoto, Yutaka Nakayama, Hiroyuki Harada, Hidefumi Hachiro, Kazuhiko Orito	451	A New Synthesis of a Functionalized Bicyclo[5.4.0]undecane Skeleton based on a Sequence involving [2 + 2] Photoaddition and Regioselective β -Scission of Alkoxy Radicals generated from the resulting Cyclobutanols
Siden Top, Anne Vessières, Gérard Jaouen	453	Synthetic Strategy for Organometallic Complexes of Rhenium with Exceptionally High Affinity for the Oestradiol Receptor; their Potential use as Imaging and Therapeutic Agents
Yoko Yuasa, Jun Ando, Shiroshi Shibuya	455	A New Enantioselective Synthesis of <i>trans</i> 2,5-Disubstituted Pyrrolidine Derivatives by Radical Cyclisation
Helmut Fischer, Carsten Troll	457	Transfer of the Carbyne Ligand to the C=C Bond <i>versus</i> Alkyne-Carbyne-CO Coupling in the Reactions of $[(\eta^5-C_5H_5)(CO)_2Mn\equiv CPh]^+$ with Electron-rich Alkynes
Yohji Misaki, Kazuya Kawakami, Toshitaka Matsui, Tokio Yamabe, Motoo Shiro	459	Preparation, Crystal Structure and Electrical Properties of Dimethyl Substituted Unsymmetrical 2,5-Bis(1',3'-dithiol-2'-ylidene)-1,3,4,6-tetrathiapentalenes
Michel Journet, Emmanuel Lacôte, Max Malacria	461	Radical Cyclisation of Bromomethyldimethylsilyl Propynyl Ethers; Serial Radical Cyclisations leading to a Hydrindene Framework from an Acyclic Substrate, Stereoselectively
Natalie S. Schneider, Adam D. Darwish, Harold W. Kroto, Roger Taylor, David R. M. Walton	463	Formation of Fullerols via Hydroboration of Fullerene-C ₆₀
Neville Boden, Richard J. Bushby, Andrew N. Cammidge	465	A Quick-and-Easy Route to Unsymmetrically Substituted Derivatives of Triphenylene: Preparation of Polymeric Discotic Liquid Crystals
Takeo Watanabe, Masaaki Sakai, Norio Miyaura, Akira Suzuki	467	Synthesis of Oxo-2-alkenylboronates and their Cyclization to 3-Methylene Cycloalkanols via Intramolecular Allylboration
Yoshio Okahata, Koichi Yasunaga, Katsuyuki Ogura	469	Imprinted Chiral Molecular Recognition in Dipeptide Crystals immobilized on a Quartz-crystal Microbalance
Toshi Nagata, Yoshiya Ikawa, Kazuhiro Maruyama	471	Effect of the Ligating Anion on the Catalase Activity of Dinuclear Manganese(II) Complexes of Schiff-base Macrocycles
A. R. Armstrong, P. A. Anderson, P. P. Edwards	473	Zeolite-directed Growth of a Potassium Superlattice
Yew Beng Kang, Michael Papel, Anthony C. Willis, S. Bruce Wild	475	Direct Syntheses of 1-Phenylphosphetane and 1-Phenylphosphirane. Crystal and Molecular Structures of Cyclotrimerisation Precursor Complexes <i>fac</i> -[Mo(CO) ₃ (PhPCH ₂ CH ₂ C ₆ H ₅) ₃] and <i>fac</i> -(Mo(CO) ₃ (PhPCH ₂ CH ₂) ₃)
Tony D. James, K. R. A. Samankumara Sandanayake, Seiji Shinkai	477	Novel Photoinduced Electron-transfer Sensor for Saccharides based on the Interaction of Boronic Acid and Amine
Eun Lee, Cheol Hwan Yoon	479	Stereoselective Favorskii Rearrangement of Carvone Chlorhydrin; Expedient Synthesis of (+)-Dihydronepetalactone and (+)-Iridomyrmecin
Hiroaki Miyaoka, Masahiro Kajiwara	483	Stereocontrolled Synthesis of Dihydroxycyclopentane Derivative: Enantioselective Synthesis of (+)-Brefeldin A
Nickolai M. Sergeyev, Natalia D. Sergeyeva, William T. Raynes	485	Deuterium-induced Carbon-13 Isotope Shifts in Halogenomethanes
Sally Brooker, Robert J. Kelly, George M. Sheldrick	487	First Synthesis of a Macrocycle from 3,6-Diformylpyridazine: X-Ray Crystal Structure of $[Pb_2(4 + 4)](ClO_4)_4$
F. Geoffrey N. Cloke, Kevin R. Flower, Peter B. Hitchcock, John F. Nixon	489	Synthesis and Molecular Structure of Tris(η^4 -2,4-di- <i>tert</i> -butyl-1,3-diphosphacyclobutadiene)molybdenum(0)
Stephen G. Davies, W. Carl Watkins	491	Contrasting Ligand Photolabilisations in the Acetyl Complexes $[(\eta^5-C_5R_5)Fe(CO)(PPh_3)COME](R = H, Me)$

Bénédicte Seiller, Christian Bruneau, Pierre H. Dixneuf	493	Novel Ruthenium-catalysed Synthesis of Furan Derivatives <i>via</i> Intramolecular Cyclization of Hydroxy Enynes
Koichi Mikami, Hiroyuki Kishino, Teck-Peng Loh	495	A Unified Approach to (22S)- or (22R)-Hydroxy Steroid Side Chain: Lewis Acid-promoted Carbonyl-ene Reaction with α -Alkoxyaldehydes
Christian Limberg, Simon Parsons, Anthony J. Downs	497	Synthesis and X-Ray Crystal Structure of a Unique Puckered Six-Membered Metallacycle in $\text{Mo}_6\text{O}_6\text{Cl}_6(\mu_3\text{-O})_2(\mu_2\text{-EtO})_6(\mu_2\text{-Cl})_2$
Toshio Honda, Fumihiro Ishikawa, Shin-ichi Yamane	499	A Concise Enantiospecific Synthesis of Nuphar Piperidine Alkaloids: Total Synthesis of (–)-Anhydronupharamine, (–)-Nupharamine, (–)-Nuphenine and (+)-3-Epinupharamine
Rasiah Thangarasa, James R. Green, T. Timothy Nadasdi	501	Diastereoselectivity in Chiral (Arene)tricarbonylchromium Homobenzylic Alcohol Complexes: Asymmetric Synthesis of Dihydroisocoumarins
Andrew Houlton, D. Michael P. Mingos, David J. Williams	503	Molecular Recognition of Nucleoside Bases by a Metal Complex. A Novel Bifunctionality with Implications for Metallo-Drug Design
Hans H. Karsch, G. Ferazin, P. Bissinger	505	High Phosphine Coordination Numbers of the Lanthanoids: σ - and π -Type Coordination in $[\text{Sm}\{\text{CH}(\text{PMe}_2)_2\}_3]_2$
Masaki Okamoto, Eiichi Suzuki, Yoshio Ono	507	Direct Formation of Organosilicon Compounds from Silicon, Methanol and Alkenes
Roland Bonneau, Yuri N. Romashin, Michael T. H. Liu, Spenser E. MacPherson	509	Synthesis of 3-Substituted Indolizines from the Reaction of Chlorocarbenes with 2-Vinylpyridine
S. Dhanalekshmi, C. S. Venkatachalam, K. K. Balasubramanian	511	Cation Radical-Induced Claisen Rearrangement of Aryl Allenylmethyl Ethers
Robert Osman, David I. Pattison, Robin N. Perutz, Claudio Bianchini, Maurizio Peruzzini	513	Pulsed Laser Photolysis of $\text{Os}(\text{pp}_3)\text{H}_2$ [$\text{pp}_3 = \text{P}(\text{CH}_2\text{CH}_2\text{PPh}_2)_3$]: Kinetic Selectivity for Reaction with Methane
Thomas G. Back, Brian P. Dyck, Masood Parvez	515	Unexpected Formation of 1,3-Diselenetanes from the Reaction of Camphor Enolate with Selenium
Yoko Nakajima Yamakoshi, Takeshi Yagami, Kiyoshi Fukuhara, Syoko Sueyoshi, Naoki Miyata	517	Solubilization of Fullerenes into Water with Polyvinylpyrrolidone Applicable to Biological Tests
Kazuko Takahashi, Shinji Tarutani	519	Novel Electron Acceptors for Organic Conductors: 1,2-Bis(<i>p</i> -benzoquino)-3-[2-(dicyanomethylene)-2,5-thienoquinolocyclopropane Derivatives
Shunichi Fukuzumi, Toshihiko Okamoto	521	Catalysis by Magnesium Ion of the Reduction of Oxygen by the 1,5-Dihydroflavin Anion <i>via</i> Electron Transfer
Sarah J. Angus-Dunne, Robert C. Burns, Donald C. Craig, Geoffrey A. Lawrance	523	A Novel Heteropolymetalate Containing Palladium(II): Synthesis and Crystal Structure of $\text{K}_2\text{Na}_6[\text{Pd}_2\text{W}_{10}\text{O}_{36}] \cdot 22\text{H}_2\text{O}$
Graeme J. Millar, John Seakins, James B. Metson, Graham A. Bowmaker, Ralph P. Cooney	525	Evidence for the Formation of Strongly Bound Molecular CO_2 Species on a Polycrystalline Silver Catalyst
John B. Parise, Younghée Ko, Job Rijssenbeek, David M. Nellis, Kemin Tan, Stephen Koch	527	Novel Layered Sulfides of Tin: Synthesis, Structural Characterization and Ion Exchange Properties of TMA-SnS-1, $\text{Sn}_3\text{S}_7(\text{NMe}_4)_2 \cdot \text{H}_2\text{O}$
Anna R. Bernardo, Tianbao Lu, Emilio Córdova, Litao Zhang, George W. Gokel, Angel E. Kaifer	529	Host-Guest Complexation at the Electrode/Solution Interface: the Inclusion of an Amphiphilic Viologen Guest by an Amphiphilic Calix[6]arene Host
Neil W. Hayes, Wolfgang Grünert, Graham J. Hutchings, Richard W. Joyner, Efim S. Shapiro	531	Formation, Storage and Reactivity of Nitrile Species during the Lean NO_x Reaction over Cu/ZSM-5 Catalysts
Brendan J. Maxwell, John Tsanaktsidis	533	Influence of Bis(tributyltin) Oxide on Aminyl Radical Cyclizations
Gianluca Ottolina, Francesca Gianinetti, Sergio Riva, Giacomo Carrea	535	Solvent Configuration influences Enzyme Activity in Organic Media
C. Thibaudeau, J. Plavec, K. A. Watanabe, J. Chattopadhyaya	537	How do the Aglycones drive the Pseudorotational Equilibrium of the Pentofuranose Moiety in C-Nucleosides?
Marilyn M. Olmstead, Gábor Speier, Lajos Szabó	541	Bound and Non-bound Tetracyanoethylene Radical Anion ($\text{TCNE}^{\cdot -}$) in Copper(I) Triphenylphosphine Complexes. The Crystal Structures of $\text{Cu}(\text{TCNE})(\text{PPh}_3)_3$, $[(\text{CN})\text{Cu}(\text{PPh}_3)_2(\text{TCNE})\text{Cu}(\text{PPh}_3)_2]^n$ and $[(\text{PPh}_3)_3\text{Cu}(\text{CN})\text{Cu}(\text{PPh}_3)_3][\text{TCNE}]$
Christoph Janiak	545	Clathrates and Coordination Polymers: New Dimensions in Poly(azolyl)borate Chemistry with Poly-(triazolyl)- and -(tetrazolyl)-borate Ligands
Jun-ichi Yoshida, Masanori Itoh, Yuko Morita, Sachihiko Ise	549	Selective Formation of Isonitriles by Anodic Oxidation of α -Heteroatom-substituted Organotin Compounds

AUTHOR INDEX

- Aizenberg, Michael, 411
 Ajayaghosh, A., 423
 Ali, Hapipah Moh'd, 425
 Anderson, P. A., 473
 Ando, Jun, 455
 Angus-Dunne, Sarah J., 523
 Armstrong, A. R., 473
 Assefa, Zerihun, 431
 Back, Thomas G., 515
 Balasubramanian, K. K., 511
 Bernardo, Anna R., 529
 Beugelmans, René, 439
 Bianchini, Claudio, 513
 Bilow, Uta, 403
 Bissell, Richard A., 405
 Bissinger, P., 505
 Boden, Neville, 465
 Bois-Choussy, Michèle, 439
 Bonneau, Roland, 509
 Bowmaker, Graham A., 525
 Brooker, Sally, 487
 Bruneau, Christian, 493
 Bryan, Aiden J., 405
 Burns, Robert C., 523
 Bushby, Richard J., 465
 Caciagli, Valerio, 445
 Cammidge, Andrew N., 465
 Carrea, Giacomo, 535
 Carty, Arthur J., 409
 Chapleur, Yves, 399
 Chattopadhyaya, J., 537
 Cloke, F. Geoffrey N., 489
 Cooney, Ralph P., 525
 Córdova, Emilio, 529
 Corrigan, John F., 409
 Craig, Donald C., 523
 Darwish, Adam D., 463
 Davey, Simon N., 397
 Davies, Stephen G., 491
 De Angelis, Francesco, 445
 de Silva, A. Prasanna, 405
 Della, Ernest W., 417
 Dhanalekshmi, S., 511
 Dixneuf, Pierre H., 409, 493
 Donati, Danielc, 441
 Downs, Anthony J., 497
 Drost, Kevin J., 369
 Dyck, Brian P., 515
 Edwards, P. P., 473
 Euvrard, M. N., 399
 Fackler, Jr., John P., 431
 Ferazin, G., 505
 Fischer, Helmut, 457
 Flower, Kevin R., 489
 Friedrichsen, Willy, 365
 Fukuhara, Kiyoshi, 517
 Fukuzumi, Shunichi, 521
 Fung, Wing-Chuen, 449
 George, M. V., 423
 George, Soney C., 423
 Gianinetti, Francesca, 535
 Gokel, George W., 529
 Gorfti, Abdellaziz, 433
 Green, James R., 501
 Grünert, Wolfgang, 531
 Haas, Alois, 391
 Hachiro, Hidefumi, 451
 Harada, Hiroyuki, 451
 Hayes, Neil W., 531
 Henderson, Richard A., 377
 Hitchcock, Peter B., 489
 Homer, John, 373
 Honda, Toshio, 499
 Hoshino, Osamu, 443
 Houlton, Andrew, 503
 Husson, Nicolas, 439
 Hutchings, Graham J., 531
 Hughes, David L., 425
 Ibrahim, Saad K., 425
 Ibusuki, Takashi, 367
 Ikawa, Yoshiya, 471
 Inoue, Nobuyo, 367
 Ishikawa, Fumihiro, 499
 Ishitani, Osamu, 367
 Isoe, Sachihiko, 549
 Itoh, Masanori, 549
 Iwamura, Hiizu, 447
 Jackson, Graham, 389
 James, Tony D., 477
 Janiak, Christoph, 545
 Jansen, Martin, 403
 Jaouen, Gérard, 433, 453
 Jen, Alex K.-Y., 369
 Journet, Michel, 461
 Joyner, Richard W., 531
 Kaifer, Angel E., 529
 Kajiwara, Masahiro, 483
 Kang, Yew Beng, 475
 Karsch, Hans H., 505
 Kawakami, Kazuya, 459
 Kelly, Robert J., 487
 Kishino, Hiroyuki, 495
 Kitano, Makoto, 447
 Ko, Younghée, 527
 Koch, Stephen, 527
 Koga, Noboru, 447
 Koike, Kazuhide, 367
 Kroto, Harold W., 463
 Lacôte, Emmanuel, 461
 Lawrence, Geoffrey A., 523
 Le Bozec, Hubert, 409
 Lee, Eun, 479
 Leigh, David A., 389, 397
 Limberg, Christian, 497
 Linnane, Patrick, 389
 Liu, Michael T. H., 509
 Loh, Teck-Peng, 495
 Lu, Tianbao, 529
 McCoy, Colin P., 405
 MacPherson, Spenser E., 509
 Malacria, Max, 461
 Maruyama, Kazuhiro, 471
 Matsui, Toshitaka, 459
 Maxwell, Brendan J., 533
 Mayon, P., 399
 Metson, James B., 525
 Mikami, Koichi, 495
 Millar, Graeme J., 525
 Milstein, David, 411
 Mingos, D. Michael P., 503
 Misaki, Yohji, 459
 Mitsudo, Take-aki, 435
 Miyaoka, Hiroaki, 483
 Miyata, Naoki, 517
 Miyaura, Norio, 467
 Moody, Andrew E., 397
 Moreau, Samuel, 409
 Morita, Yuko, 549
 Moufid, N., 399
 Murakata, Masatoshi, 443
 Nadasdi, T. Timothy, 501
 Nagata, Toshi, 471
 Nakayama, Yutaka, 451
 Nellis, David M., 527
 Nixon, John F., 489
 Nozaki, Kyoko, 395
 Nyéki, Olga, 393
 Oglieve, Kay E., 377
 Ogura, Katsuyuki, 469
 Okahata, Yoshio, 469
 Okamoto, Masaki, 507
 Okamoto, Toshihiko, 521
 Olmstead, Marilyn M., 541
 Ono, Yoshio, 507
 Orito, Kazuhiko, 451
 Osman, Robert, 513
 Otsuka, Masami, 437
 Ottolina, Gianluca, 535
 Padova, Alessandro, 441
 Papel, Michael, 475
 Parise, John B., 527
 Parsons, Simon, 497
 Parvez, Masood, 515
 Pattison, David I., 513
 Pauze, Robert H., 381
 Perboni, Alcide, 441
 Perry, Michael C., 373
 Perutz, Robin N., 513
 Peruzzini, Maurizio, 513
 Pickett, Christopher J., 425
 Pilette, Didier, 409
 Plavec, J., 537
 Pritchard, Robin G., 389
 Pryka, Michael, 391
 Pushkara Rao, V., 369
 Raynes, William T., 485
 Reese, Colin B., 385
 Rijssenbeek, Job, 527
 Riva, Sergio, 535
 Roberts, Stanley M., 441
 Romashin, Yuri N., 509
 Rossi, Tino, 441
 Sakai, Masaaki, 467
 Sakai, Nozomu, 395
 Salmain, Michèle, 433
 Samankumara Sandanayake, K. R. A., 477
 Scaloni, Andrea, 445
 Schiesser, Carl H., 417
 Schneider, Hans-Jörg, 413
 Schneider, Natalie S., 463
 Schön, István, 393
 Seakins, John, 525
 Seiller, Bénédicte, 493
 Sekiya, Akira, 429
 Sergeyev, Nickolai M., 485
 Sergeyeva, Natalia D., 485
 Shek, Louise H. K., 385
 Sheldrick, George M., 487
 Shi, Youheng, 375
 Shibakami, Motonari, 429
 Shibuya, Shiroshi, 455
 Shing, Tony K. M., 449
 Shinkai, Seiji, 477
 Shiro, Motoo, 459
 Shpiro, Efim S., 531
 Singh, Girij Pal, 439
 Slawin, Alexandra M. Z., 421
 Speier, Gábor, 541
 Staples, Richard J., 431
 Sueyoshi, Syoko, 517
 Suginome, Hiroshi, 451
 Suzuki, Akira, 467
 Suzuki, Eiichi, 507
 Szabó, Lajos, 541
 Takahashi, Kazuko, 519
 Takaya, Hidemasa, 395
 Takeuchi, Tomio, 437
 Tan, Kemin, 527
 Tarutani, Shinji, 519
 Taylor, Roger, 463
 Tetler, Lee W., 397
 Thangarasa, Rasiah, 501
 Thibaudeau, C., 537
 Top, Siden, 453
 Troll, Carsten, 457
 Tsanaktsidis, John, 533
 Umezawa, Kazuo, 437
 Venkatachalam, C. S., 511
 Verdini, Antonio S., 445
 Vessières, Anne, 453
 Wade, Frances A., 397
 Waller, David P., 381
 Walton, David R. M., 463
 Wang, Manxue, 413
 Ward, Joanna, 421
 Watanabe, K. A., 537
 Watanabe, Takeo, 467
 Watanabe, Takumi, 437
 Watanabe, Yoshihisa, 435
 Watkins, W. Carl, 491
 Werner, Andreas, 365
 Whitenour, David C., 381
 Wild, S. Bruce, 475
 Williams, David J., 421, 503
 Willis, Anthony C., 475
 Wong, Ching-Hung, 449
 Woollins, J. Derek, 421
 Yagami, Takeshi, 517
 Yamabe, Tokio, 459
 Yamada, Kohei, 443
 Yamakoshi, Yoko Nakajima, 517
 Yamane, Shin-ichi, 499
 Yasunaga, Koichi, 469
 Yoon, Cheol Hwan, 479
 Yoshida, Jun-ichi, 549
 Yuasa, Yoko, 455
 Zhang, Litao, 529
 Zhang, Shi-Wei, 435
 Zhang, Zhihui, 375
 Zhao, Zhengyun, 385
 Zhu, Jieping, 439
 Zuraw, Michael J., 381