
Contents

- | | | | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Mexican jadeite-bearing rock: a first mineralogical and gemmological approach
<i>M. Ostrooumov and A.V. Morales</i> | 67 | The gemmological properties and infrared spectra of brucite, an imitation of nephrite and Shoushan stone
<i>Li Jianjun, Yu Xiaoyan, Cai Jia, Liu Xiaowei, Fan Chengxing and Cheng Youfa</i> |
| 7 | New data for distinguishing between hydrothermal synthetic, flux synthetic and natural corundum
<i>A.S. Bidny, O.S. Dolgova, I.A. Baksheev and I.A. Ekimenkova</i> | 74 | A new approach to the teaching and use of the refractometer
<i>D.B. Sturman</i> |
| 15 | A cautionary tale about a little-known type of non-nacreous calcareous concretion produced by the <i>Magilus antiquus</i> marine snail
<i>T. Hainschwang, T. Hochstrasser, I. Hajdas and W. Keutschegger</i> | 90 | Use of the polarizing filter on the refractometer in determinations of the optic sign or optic character of a gemstone
<i>D.B. Sturman and D. Parker</i> |
| 23 | Identification of CVD-grown synthetic melee pink diamond
<i>H. Kitawaki, A. Abduriyim, J. Kawano and M. Okano</i> | 101 | Use of the polarizing filter to improve observations of the shadow edges on the refractometer
<i>D.B. Sturman and D. Parker</i> |
| 31 | Appearance of new bead material in cultured pearls
<i>H.A. Hänni, M.S. Krzemnicki and L. Cartier</i> | 106 | Abstracts |
| 38 | The over-grading of blue-fluorescent diamonds: the problem, the proof and the solutions
<i>M. D. Cowing</i> | 112 | Book Reviews |
| 52 | High pressure high temperature treatment of diamonds – a review of the patent literature from five decades (1960–2009)
<i>K. Schmetzer</i> | 114 | Proceedings of The Gemmological Association of Great Britain and Notices |

Cover Picture: Alexandrite trillings from the Ural mountains, which form part of the Koksharov collection at the Natural History Museum, London. The faces are labelled with Miller indices in different colours, allowing twinning and twin boundaries to be easily recognized. The samples measure approximately 3.5 x 4.5 cm (top) and 6.5 x 6.5 cm (the two photographs below, which give different views of the same stone). The photographs were taken by Karl Schmetzer during a visit to the Natural History Museum and are featured on page 60 of his book *Russian Alexandrites*. (See book review by Alan Hart of the Natural History Museum of *Russian Alexandrites* by Karl Schmetzer, page 113.)
Courtesy of Schweizerbart Science Publishers, Stuttgart, Germany, www.schweizerbart.de/9783510652624

The Gemmological Association of Great Britain

27 Greville Street, London EC1N 8TN

T: +44 (0)20 7404 3334 F: +44 (0)20 7404 8843

E: information@gem-a.com W: www.gem-a.com

