

IDENTIFICATION OF CERIA ALIOVALENT FORMS IN FLUORIDE MATERIALS BY
DIFFUSE REFLECTANCE SPECTROSCOPY

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References:

1. Stoyanova I.V., Chivireva N.A., Stoyanov A.O., Zinchenko V.F., Timukhin E.V., Antonovich V.P.. Nekotorye vozmozhnosti veshchestvennogo analiza funktsional'nykh materialov na osnove ftoridov redkozemel'nykh elementov. Metody i ob"ekty khimicheskogo analiza. 2011, 6(3), 149-158 (in Russ).
2. Antonovich V. P., Stoyanova I. V., Chivireva N. A., Timukhin E. V., Zinchenko V. F., Efryushina N. P. Identification and quantitative determination of some inorganic lanthanide compounds by diffuse reflectance spectroscopy. *Journal of Analytical Chemistry*, 2007, 62(3), 238-244.
3. Stoyanova I.V., Chivireva N.A., Antonovich V.P., Timukhin E.V., Levshov S.M., Stoyanov A.O. Vozmozhnosti spektroskopii diffuznogo otrazheniya dlya kolichestvennogo opredeleniya nekotorykh lantanidov v oksidnykh i ftoridnykh materialakh. Visn. Khar'k. nats. un-tu. 2008, 820. Khimiya. Vip. 16 (39), 131-135 (in Russ).
4. Suslennikova V.M., Kiseleva E.K. Rukovodstvo po prigotovleniyu titrovannykh rastvorov. L.: Khimiya, 1968. S. 144 (in Russ).
5. Rukovodstvo po neorganicheskomu sintezu. Pod red. T. Brauera, v 6 t. M.: Mir, 1985. T.1. S. 281 (in Russ).
6. Patent № 45138A Ukraina, MKU7SO1F17/00. Sposib oderzhannya tetraftoridu i triftoridu tseriyu. /V. F. Zinchenko, O.G. Er'omin. – №2001053626. Opubl. 15.03.2002. Byul. №3 (in Russ).
7. Batsanov S. S., Derbeneva S. S., Batsanova L. R Electronic spectra of fluorides, oxyfluorides, and oxides of rare-earth metals. *Journal of Applied Spectroscopy*, 1969, 10(2), 240-242.
8. Keller C., Salzer M. Ternäre fluoride des typs MeIIMeIVF6 mit LaF3-struktur. J. Inorg. Nucl. Chem., 1967, 29 (12), 2925-2934.
9. Braun D. Galogenidy lantanoidov i aktinoidov. Per. s angl. Pod red. akad. I.V. Tananaeva. M.: Atomizdat, 1972. S.80 (in Russ).
10. Zinchenko V.F., Timukhin E.V., Pavlinchuk S.A., Nechiporenko A.V., Sadovskaya L.V. Osnovnost', kislotnost' i rastvorimost' ftoridov i oksidov metallov v solevykh rasplavakh. *Elektrokhimiya*. 2012, 48(10), 1100–1104 (in Russ).