

Wrocław University of Technology
Centre of Advanced Materials and Nanotechnology

Materials Science-Poland

Contents of Volume 27
Author Index
Key Word Index

Vol. 27



2009



Oficyna Wydawnicza Politechniki Wrocławskiej

Printed in Poland

© Copyright by Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2009

Drukarnia Oficyny Wydawniczej Politechniki Wrocławskiej

Contents of Volume 27

No. 1

H. Ciurla, J. Hanuza, Z. Talik, M. Korabik, J. Mroziński, Vibrational spectra, electronic excited states and magnetic properties of the copper(II) ions in alkylaminoacetylurea complexes	5
X. -F. Xiao, R.-F. Liu, T. Tian, Preparation and bioactivity of embedded-style hydroxyapatite–titania nanotube arrays	23
W. J. Feng, D. Li, Q. Zhang, Y.F. Deng, S. Ma, Z.D. Zhang, Structure, magnetic and electrical transport properties of $Mn_{4-x}Ag_xN$ compounds	33
T. Thongtem, A. Phuruangrat, S. Thongtem, Characterization of nanocrystalline $LiNi_{1-x}Co_xVO_4$ prepared by the polymerized complex method	43
G. Pawłowska, W. Kaszuwara, H. Bala, The effect of Cr, Co, W, Zr and Pb (M) substitution on the structure and corrosion resistance of nanocrystalline $Nd_{10}Fe_{84-x}M_xB_6$ magnets	51
R. Budreckiene, V. Andruleviciute, G. Buika, J.V. Grazulevicius, V. Jankauskas, V. Grazuleviciene, Methacryloyl functionalized hydrazones as hole-transporting materials for electrophotography	61
J. Zhou, G. Zhou, R. Wang, M. Lu, Synthesis in aqueous phase and characterization of silver nanorods and nanowires	73
M. Gögebakan, M. Okumus, Structure and crystallization kinetics of amorphous Al–Ni–Si alloy	79
Y. Zhang, L. Hu, T. Hu, J. Chen, Preparation and pressureless sintering of nanostructured zirconia–titania composite powders	89
W. Shao, S. Chen, D. Li, H. Cao, S. Zhang, Construction of the master sintering curve for submicron size $\alpha-Al_2O_3$ based on non-isothermal sintering containing lower heating rates only	97
N. K. Srivastava, R.M. Mehra, Study of the electrical properties of polystyrene–foliated graphite composite	109
S. Majumder, Synthesis and characterisation of SnO_2 films obtained by a wet chemical process	123
M. R. Izadpanah, A.R.A. Dezfoli, Prediction of the thermal shock resistance of refractory materials using R values	131
D. Schmeisser, M. Tallarida, K. Henkel, K. Müller, D. Mandal, D. Chumakov, E. Zschech, Characterization of oxidic and organic materials with synchrotron radiation based XPS and XAS	141
K. -S. Hwang, S. Hwangbo, J.-T. Kim, The influence of the pre-firing temperature on the structure and surface morphology of sol-gel derived ZnO film	159
Y. Jin, L. Hua, X. Xu, Q. Peng, The effect of electromagnetic stirring on the microstructure and corrosion of mischmetal modified AZ91D magnesium alloy	171
Y. Li, X. Liu, Y. Zou, Y. Guo, The growth morphology of ZnO hexangular tubes synthesized by the solvothermal method	187
S. V. Vikram, D. Maurya, V.S. Chandel, The effect of paramagnetic doping on the dielectric response of $K_{1.85}Na_{0.15}Ti_4O_9$ layered ceramics	193
G. Dercz, K. Prusik, L. Pająk, R. Pielaszek, J. J. Malinowski, W. Pudło, Structure studies on nanocrystalline powder of MgO xerogel prepared by the sol-gel method	201
C. C. Yap, M. Yahaya, M.M. Salleh, The effect of DCJTb concentration on the photoluminescent and electroluminescent properties of PVK–PBD–perylene–DCJTb thin films	209
Y. Wang, G. Xu, L. Yang, Z. Ren, X. Wei, W. Weng, P. Du, G. Shen, G. Han, Enhancement of ferromagnetic properties in Ni-doped $BiFeO_3$	219

R. Sharma, P.K. Shishodia, A. Wakahara, R.M. Mehra, Investigations of highly conducting and transparent Sc doped ZnO films grown by the sol-gel process	225
F. Huang, X.-Z. Lu, Y.-F. Zhang, X.-Y. Luo, C. Yu, R. Wu, A new composite, Co-Sn metal oxide anode for lithium ion batteries	239
J. Stankowski, S. Waplak, Damage to TGS crystals caused by hydrostatic pressure	249
K. Baltakys, R. Siauciumas, Physically and chemically bound H ₂ O in the gyrolite structure	255
A. S. Liu, M.A.S. Oliveira, Characterization of polypyrrole films deposited on aluminum surfaces from oxalic acid aqueous solution	265
A. M. Shafiei, A new model for the effect of grain size on the elastic modulus of nanocrystalline materials	279
X. Cao, J. Liu, J. Wan, L. Xie, X. Yan, H. Wang, Improvement of LiCoO ₂ cathodes by using Ag ₂ V ₄ O ₁₁ as an additive	287
A. K. Adiyodi, X. Joseph, P.V. Jyothy, G. Jose, N.V. Unnikrishnan, Dielectric and microhardness studies of methylene blue doped PMMA matrix	297
P. Jóźwiak, J.E. Garbarczyk, M. Wasiucione, I. Gorzkowska, F. Gendron, A. Mauger, C. Julien, The thermal stability, local structure and electrical properties of lithium-iron phosphate glasses	307
B. Yao, C. Yang, K. Zhang, C. Ni, H. Song, Z. Ni, M. Chen, Syntheses and characterization of pH-sensitive hydrogel from poly(γ -glutamic) acid	319
J. Lin, W. Huang, L. Ma, Q. Bian, S. Qin, H. Wei, J. Chen, Crystallization of TeO ₂ -Nb ₂ O ₅ glasses and their network structural evolution	329
L. Z. Pei, Silicon oxide nanowires and spheres grown by hydrothermal deposition	339
From the Editor	349

No. 2

Y. Baganov, V. Krasnov, O. Lebed, S. Shutov, Reducing the density of threading dislocations in GaAs epitaxial layers. Efficiency assessment of isovalent Bi doping and Pb doping	355
S. S. Hussaini, N.R. Dhumane, V.G. Dongre, M.D. Shirsat, Growth and characterization of an NLO material – crystal of triglycine acetate	365
K. Prasad, K. Kumari, K.P. Chandra, K.L. Yadav, S. Sen, Dielectric relaxation and ac conductivity of WO ₃ added (Na _{1/2} Bi _{1/2})TiO ₃ ceramic	373
M. M. El-Nahass, A.M. Farid, H.H. Amer, K.F. Abdel-Rahman, H.A.M. Ali, Electrical properties of tin phthalocyanine-based heterostructures: SnPcCl ₂ /GaP, SnPcCl ₂ /InP and SnPcCl ₂ /GaAs	385
S. Askari, R. Halladj, B. Nasernejad, Characterisation and preparation of sonochemically synthesised silver-silica nanocomposites	397
J. Judes, V. Kamaraj, Preparation and characterization of yttria stabilized zirconia minispheres by the sol-gel drop generation method	407
D. Vaičiukyniene, K. Baltakys, A. Kantautas, Hydrosodalite ion exchange in saturated Ca(OH) ₂ solution	417
C. Falamaki, M. Beyhaghi, Slip casting process for the manufacture of tubular alumina microfiltration membranes	427
C. Zhang, Y. Qu, Influence of antimony oxide on the dielectric properties of barium strontium titanate based ceramics	443
Y. Li, S. Hu, Oxidation of activated carbon fibre and its adsorption of amylase	453
S. Mahata, D. Kundu, Hydrothermal synthesis of aqueous nano-TiO ₂ sols	463
Y. Wang, G. Xu, L. Yang, Z. Ren, X. Wei, W. Weng, P. Du, G. Sheen, G. Han, Room-temperature ferromagnetism in Fe-doped Na _{0.5} Bi _{0.5} TiO ₃ crystals	471

- J. Wang, S. He, S. Zhang, Z. Li, P. Yang, X. Jing, M. Zhang, Z. Jiang, Controllable synthesis of ZnO nanostructures by a simple solution route 477
- S. Narksitipan, T. Bannuru, W.L. Brown, R.P. Vinci, S. Thongtem, Deposition of Au, Au-V and Au-VO_x on Si wafers by co-sputtering technique 485
- Z. Wang, R. Tong, H. Lin, D. Yang, Influence of WO₃ content on the optical properties of Eu³⁺-doped Bi₂O₃-B₂O₃-WO₃ glasses 493
- J. Wang, S. He, Z. Li, X. Jing, M. Zhang, Synthesis of claw-like CuO and its catalytic activity in the thermal decomposition of ammonium perchlorate 501
- C.-L. Yuan, C.-P. Chang, Y.-S. Hong, Y. Sung, Fabrication of MWNTs-PANI composite – a chemiresistive sensor material for the detection of explosive gases 509
- S. S. Dipti, U.C. Chung, W.S. Chung, Carbon supported Pt-Ni nanoparticles as catalysts in direct methanol fuel cells 521
- X. Tang, Y.G. Yang, Composition and magnetic properties of M-Ba ferrite powders fabricated via sugar-nitrates process 529
- L. X. Li, D.T. Zhang, M. Li, H.X. Wang, Amorphous phase formation of Zr-Cu thin films fabricated by magnetron co-sputtering 539
- L. Wang, B. Fan, Z. Wang, X. Cheng, Y. Wu, L. Chen, Effects of substrate temperature on crystallite orientation of HfO₂ thin films 547
- Y. Li, H. Feng, N. Zhang, C. Liu, Hydrothermal synthesis and characterization of tube-structured ZnO needles 551
- S. Chopra, R.P. Gupta, B.C. Joshi, G. Eranna, S. Banerjee, Study of hydrogen passivation in SiN_x:H films using Fourier transform infrared and photoluminescence spectroscopy 559
- M. S. da Luz, C.A.M. dos Santos, C.Y. Shigue, F.J.H. de Carvalho Jr., A.J.S. Machado, The van der Pauw method of measurements in high-*T_c* superconductors 569
- E. Markiewicz, D. Paukszta, S. Borysiak, Dielectric properties of lignocellulosic materials –polypropylene composites 581
- S. I. Simonetti, G.P. Brizuela, A. Juan, A computational study of hydrogen embrittlement phenomena in an iron nickel based alloy 595
- S.-H. Choi, H. Cheng, S.-H. Park, H.-J. Kim, Y.-Y. Kim, K.-W. Lee, A study of the gas specificity of porous silicon sensors for organic vapours 603

No. 3

11th International Conference on Electrical and Related Properties of Organic Solids (ERPOS-11)

- W. Bartkowiak, From the Guest Editor 617
- I. Olejniczak, B. Barszcz, A. Graja, J.A. Schlueter, Optical study of β''-(bis(ethylenedithio)-tetrathiafulvalene)₂SF₅CH₂SO₃. Activation of intramolecular modes 619
- A. Eilmes, Stabilization energies in charged tetracene clusters. Quantum chemical and microelectrostatic calculations 629
- R. W. Munn, A. Eilmes, S. Scarle, M. Sterzel, Simulation of ion transport through poly(ethylene-oxide) loaded with lithium perchlorate 637
- O. Salyk, P. Bednář, M. Vala, J. Vyňuchal, Sensoric properties of aromatic and heterocyclic compounds with conjugated bonds 649
- P. Uznański, J. Kurjata, E. Bryszewska, Modification of gold nanoparticle surfaces with pyrenedisulfide in ligand-protected exchange reactions 659
- M. Menšík, K.L. Král, Nonradiative electron and energy transfer. Explicit estimation of the influence of coherent and dephasing processes in a vibrational bath on electronic dynamics 671

- J. Cabaj, A. Chyla, J. Soloducho, G. Olszowa, Thin protein LB films as functional components within biosensors 685
- Ł. Pietrzak, J.K. Jeszka, Gold nanoparticles grown on multiwall carbon nanotubes 693
- M. Koszykowska, M. Tokarek, S. Kucharski, Synthesis and photochromic properties of poly [*N*-vinyl-2-(phenylazo)-imidazole] derivatives in the near UV range 699
- T. Manaka, M. Nakao, E. Lim, M. Iwamoto, Ambipolar injection into pentacene field effect transistor observed by time-resolved optical second harmonic generation imaging 709
- Y. Ohshima, H. Kohn, E. Lim, T. Manaka, M. Iwamoto, Observation of electron injection in an organic field-effect transistor with electroluminescence 719
- H. Kohn, M. Fukada, Y. Ohshima, T. Manaka, M. Iwamoto, Circular dichroism and electroluminescence of poly(diacetylene) film with chirality 727
- J. Kalinowski, Excimers and exciplexes in organic electroluminescence 735
- R. Signerski, G. Jarosz, Photoelectric properties of WO₃/tetracene heterojunctions 757
- R. Signerski, Photovoltaic properties of organic heterojunctions formed from tetracene and zinc hexadecafluorophthalocyanine 763
- D. Rais, J. Hain, A. Pich, S. Pohekailov, S. Nešpůrek, H.-J.P. Adler, A. Hamáček, J. Řeboun, Electrical conductivity in thin films fabricated from nanoparticles of a polymeric composite based on PEDOT 769
- S. Pohekaylov, D. Rais, S. Nešpůrek, J. Rakušan, M. Karásková, Electronic and gas sensing properties of soluble phthalocyanines 781
- P. Toman, S. Nešpůrek, W. Bartkowiak, Modelling of charge carrier transport in conjugated polymers doped by polar additives 797
- J. Olesiak, K. Matczyszyn, H. Mojzisova, M. Zielinski, D. Chauvat, J. Zyss, Liquid crystalline phases in DNA and dye-doped DNA solutions analysed by polarized linear and nonlinear microscopy and differential scanning calorimetry 813

Regular papers

- K. B. Tan, C.C. Khaw, C.K. Lee, Z. Zainal, Y.P. Tan, H. Shaari, High temperature impedance spectroscopy study of non-stoichiometric bismuth zinc niobate pyrochlore 825
- O. P. Thakur, A. Kumar Singh, Electrostriction and electromechanical coupling in elastic dielectrics at nanometric interfaces 839
- Z. Czech, R. Pelech, Thermal degradation of solvent-borne water soluble acrylic acid-butyl acrylate copolymers 851
- X. J. Wu, X.W. Xu, X.S. Sun, Magnetic properties of mechanically milled nanosized Mn 857
- S. Dymek, M. Wróbel, Z. Witczak, M. Blicharski, Microstructure and properties of Ti-45Al-5V intermetallic alloy 865
- S. S. Razavi Tousi, R. Yazdani Rad, E. Salahi, M. Razavi, Effect of milling time and addition of alumina powder on the structural properties and fracture surface of nanocrystalline Al 875
- H. Zhang, J. Shi, Y. Song, J. Zhao, K. Wang, Q. Guo, G. Zhai, L. Liu, Effect of growth time on the morphologies of vapour grown carbon fibres and a suggested mechanism of growth 885
- C. Fu, F. Pan, W. Cai, X. Deng, X. Liu, Relaxor characteristics of ferroelectric BaZr_{0.2}Ti_{0.8}O₃ ceramics 891
- A. Bankauskaite, K. Baltakys, The sorption of copper ions by gyrolite in alkaline solution 899
- G. Carja, S. Dranca, G. Ciobanu, E. Husanu, I. Balasanian, Fabrication of mesoporous mixed oxides containing copper and cerium by using substituted anionic clays as precursors 909
- M. Gögebakan, B. Avar, O. Uzun, Quasicrystalline phase formation in the conventionally solidified Al-Cu-Fe system 919

No. 4/1

- W. Nocuń-Wczelik, M. Nocuń, G. Łój, Interaction of Pb with hydrating alite paste. XPS studies of surface products 933
- K. B. Tan, C.C. Khaw, C.K. Lee, Z. Zainal, Y.P. Tan, H. Shaari, High temperature impedance spectroscopy study of non-stoichiometric bismuth zinc niobate pyrochlore 947
- M. Salarian, M. Solati-Hashjin, S. Sara Shafiei, A. Goudarzi, R. Salarian, A. Nemati, Surfactant-assisted synthesis and characterization of hydroxyapatite nanorods under hydrothermal conditions 961
- W. B. Zhou, B.C. Mei, J.Q. Zhu, On the synthesis and properties of bulk ternary Cr₂AlC ceramics 973
- J. Ma, Y. Ji, M. Tian, Preparation and characterization of La- and Ni-doped magnetite nanoparticles 981
- B. Żurowska, A. Białońska, J. Ochocki, Structure and characterization of copper(II) perchlorate with diethyl(pyridin-2-ylmethyl) phosphonate (2-pmpe) ligand: [Cu(2-pmpe)₂(ClO₄)₂] 987
- B. Żurowska, A. Kotyński, J. Ochocki, Coordination properties of the diethyl (pyridyn-3-ylmethyl)phosphonate ligand (3-pmpe) with nitrate transition metal salts 999
- X. Liu, Q. Wang, Y. Li, Y. Guo, Blue shift of photoluminescence of Al₂O₃-morin nanocomposites 1009
- A. Zhang, J. Zhang, The effect of hydrothermal temperature on the synthesis of monoclinic bismuth vanadate powders 1015
- R. Choudhary, K. Laishram, R.K. Gupta, Rapid synthesis of Nd:YAG nanopowder by microwave flash combustion 1025
- G. Sun, Y.W. Li, Q.K. Hu, Q.H. Wu, D.L. Yu, Non-stoichiometric boron carbide synthesized in moderate temperature conditions 1033
- R. K. Singh, K. K. Pandey, M.P. Singh, R.P. Singh, Acoustical investigations of uranium chalcogenides 1041
- M. Guo, H. Deng, P. Yang, Synthesis and characterization of nanoscale Bi₂Cu_{0.1}V_{0.9}O_{5.35} powders by solution-based chemical methods 1055
- J. G. Santos, T. Ogasawara, R.A. Corrêa, Synthesis of nanocrystalline rutile-phase titania at low temperatures 1067
- K. Baltakys, R. Jauberthie, Formation and stability of C-S-H (I) of various degrees of crystallinity in the Ca(OH)₂/CaO-Hi-Sil-H₂O system 1077
- K. Baltakys, Influence of gypsum additive on the formation of calcium silicate hydrates in mixtures with C/S = 0.83 or 1.0 1091
- H. Matysiak, J. Michalski, A. Balkowiec, K. Sikorski, K.J. Kurzydłowski, Surface defects of investment castings of turbofan engine components made of IN713C nickel superalloy 1103

No. 4/2

- C. Brosseau, W. Ndong, Electromagnetomechanical coupling response of plastoferrites 1117
- H. Sjöstedt, R. Montañó, Y. Serdyuk, S.M. Gubański, Charge relaxation on surfaces of polymeric insulating materials for outdoor applications 1129
- M. Muhr, R. Schwarz, Experience with optical partial discharge detection 1139
- W. Skomudek, Comparative analysis of lightning overvoltages in distribution lines on the ground of laboratory tests and measurements 1147
- R. Patsch, D. Kamenka, J. Menzel, Return voltage measurements. Diagnostic interpretations based on the dielectric time constants 1157
- A. Sikora, T. Gotszalk, R. Szeloch, Nanoscale evaluation of thin oxide film homogeneity with combined shear force emission microscope 1171
- T. Wiktorczyk, Broadband dielectric spectroscopy of Al/Lu₂O₃/Al thin film sandwiches 1179

- T. Krause, L. Moroń, E. Motyl, P. Żyłka, Space charge decay in low density polyethylene–montmorillonite clay multilayer nanocomposites 1189
- J. Gielniak, A. Graczkowski, S. Gubański, H. Moranda, H. Mościcka-Grzesiak, K. Walczak, Influence of thermal ageing on dielectric response of oil-paper insulation 1199
- A. Gubański, W. Mielcarek, K. Prociów, J. Warycha, J.M. Wróbel, The effect of aluminium additive on the electrical properties of ZnO varistors 1207
- W. Kasprzak, Z. Nadolny, K. Walczak, K. Siodła, W. Sikorski, K. Józwiak, G. Paściak, L. Moroń, The influence of barium titanate as a filler in impregnating epoxy resin on chosen electrical parameters of obtained material 1219
- J. Subocz, Application of the FDS method for assessment of HV epoxy–mica–glass insulation 1229
- B. Górnicka, L. Górecki, Method of assessment of varnishes modified with nanofillers 1237
- Z. Świerzyzna, G. Paściak, B. Mazurek, J. Olejnik, Modification of the composition and technology of the processing of ceramic-polymer insulators 1243
- J. Chmielowiec, G. Paściak, P. Bujło, BIMEVOX materials for application in SOFCS 1251
- A. Bryszewska-Mazurek, W. Mazurek, The influence of electric field on HFC-245fa condensation 1257
- S. Wolny, J. Kędzia, M. Zdanowski, Novel method of charge mobility assignation in liquid dielectrics by streaming electrification 1263
- E. Zawadzka, R. Kuliński, B. Szubzda, B. Mazurek, Polyaniline–multi-walled carbon nanotube shell-core composite as an electrode material in supercapacitors 1271

Author Index*

Abdel-Rahman K.F. see El-Nahass M.M.	385/2
Adiyodi A.K., Joseph X., Jyothy P.V., Jose G., Unnikrishnan N.V., Dielectric and microhardness studies of methylene blue doped PMMA matrix	297/1
Adler H.-J.P. see Rais D.	769/3
Ali H.A.M. see El-Nahass M.M.	385/2
Amer H.H. see El-Nahass M.M.	385/2
Andruleviciute V. see Budreckiene R.	61/1
Askari S., Halladj R., Nasernejad B., Characterisation and preparation of sonochemically synthesised silver–silica nanocomposites	397/2
Avar B. see Gögebakan M.	919/3
Baganov Ye., Krasnov V., Lebed O., Shutov S., Reducing the density of threading dislocations in GaAs epitaxial layers. Efficiency assessment of isovalent Bi doping and Pb doping	355/2
Bala H. see Pawłowska G.	51/1
Balasanian I. see Carja G.	909/3
Balkowiec A. see Matysiak H.	1103/4/1
Baltakys K. see Bankauskaite A.	899/3
Baltakys K. see Vaičiukyniene D.	417/2
Baltakys K., Influence of gypsum additive on the formation of calcium silicate hydrates in mixtures with C/S = 0.83 or 1.0	1091/4/1
Baltakys K., Jauberthie R., Formation and stability of C–S–H (I) of various degrees of crystallinity in the Ca(OH) ₂ /CaO–Hi–Sil–H ₂ O system	1077/4/1
Baltakys K., Siauciuonas R., Physically and chemically bound H ₂ O in the gyrolite structure	255/1
Banerjee S. see Chopra S.	559/2
Bankauskaite A., Baltakys K., The sorption of copper ions by gyrolite in alkaline solution	899/3
Bannuru T. see Narksitipan S.	485/2
Barszcz B. see Olejniczak I.	619/3
Bartkowiak W. see Toman P.	797/3
Bartkowiak W., From the Guest Editor	617/3
Bednář P. see Salyk O.	649/3
Beyhaghi M. see Falamaki C.	427/2
Białońska A. see Żurowska B.	987/4/1
Bian Q. see Lin J.	329/1
Blicharski M. see Dymek S.	865/3
Borysiak S. see Markiewicz E.	581/2
Brizuela G.P. see Simonetti S.I.	595/2
Brosseau C., Ndong W., Electromagnetomechanical coupling response of plastoferrites	1117/4/2
Brown W.L. see Narksitipan S.	485/2
Bryszewska E. see Uznański P.	659/3
Bryszewska-Mazurek A., Mazurek W., The influence of electric field on HFC-245fa condensation	1257/4/2
Budreckiene R., Andruleviciute V., Buika G., Grazulevicius J.V., Jankauskas V., Grazuleviciene V., Methacryloyl functionalized hydrazones as hole-transporting materials for electrophotography	61/1

*Page number/Issue number.

- Buika G. see Budreckiene R. 61/1
- Bujlo P. see Chmielowiec J. 1251/4/2
- Cabaj J., Chyla A., Soloduchko J., Olszowa G., Thin protein LB films as functional components within biosensors 685/3
- Cai W. see Fu C. 891/3
- Cao H. see Shao W. 97/1
- Cao X., Liu J., Wan J., Xie L., Yan X., Wang H., Improvement of LiCoO₂ cathodes by using Ag₂V₄O₁₁ as an additive 287/1
- Carja G., Dranca S., Ciobanu G., Husanu E., Balasanian I., Fabrication of mesoporous mixed oxides containing copper and cerium by using substituted anionic clays as precursors 909/3
- Carvalho de F.J.H. Jr. see Luz da M.S. 569/2
- Chandel V.S. see Vikram S.V. 193/1
- Chandra K.P. see Prasad K. 373/2
- Chang C.-P. see Yuan C.-L. 509/2
- Chauvat D. see Olesiak J. 813/3
- Chen J. see Lin J. 329/1
- Chen J. see Zhang Y. 89/1
- Chen L. see Wang L. 547/2
- Chen M. see Yao B. 319/1
- Chen S. see Shao W. 97/1
- Cheng H. see Choi S.-H. 603/2
- Cheng X. see Wang L. 547/2
- Chmielowiec J., Paściak G., Bujlo P., BIMEVOX materials for application in SOFCs 1251/4/2
- Choi S.-H., Cheng H., Park S.-H., Kim H.-J., Kim Y.-Y., Lee K.-W., A study of the gas specificity of porous silicon sensors for organic vapours 603/2
- Chopra S., Gupta R.P., Joshi B.C., Eranna G., Banerjee S., Study of hydrogen passivation in SiN_x:H films using Fourier transform infrared and photoluminescence spectroscopy 559/2
- Choudhary R., Laishram K., Gupta R.K., Rapid synthesis of Nd:YAG nanopowder by micro-wave flash combustion 1025/4/1
- Chumakov D. see Schmeisser D. 141/1
- Chung U.C. see Dipti S.S. 521/2
- Chung W.S. see Dipti S.S. 521/2
- Chyla A. see Cabaj J. 685/3
- Ciobanu G. see Carja G. 909/3
- Ciurla H., Hanuza J., Talik Z., Korabik M., Mroziński J., Vibrational spectra, electronic excited states and magnetic properties of the copper(II) ions in alkylaminoacetylurea complexes 5/1
- Corrêa R.A. see Santos J.G. 1067/4/1
- Czech Z., Pelech R., Thermal degradation of solvent-borne water soluble acrylic acid-butyl acrylate copolymers 851/3
- Deng H. see Guo M. 1055/4/1
- Deng X. see Fu C. 891/3
- Deng Y.F. see Feng W.J. 33/1
- Dercz G., Prusik K., Pająk L., Pielaszek R., Malinowski J.J., Pudło W., Structure studies on nanocrystalline powder of MgO xerogel prepared by the sol-gel method 201/1
- Dezfoli A.R.A. see Izadpanah M.R. 131/1
- Dhumane N.R. see Hussaini S.S. 365/2
- Dipti S.S., Chung U.C., Chung W.S., Carbon supported Pt-Ni nanoparticles as catalysts in direct methanol fuel cells 521/2
- Dongre V.G. see Hussaini S.S. 365/2

- Dranca S. see Carja G. 909/3
- Du P. see Wang Y. 219/1
- Du P. see Wang Y. 471/2
- Dymek S., Wróbel M., Witczak Z., Blicharski M., Microstructure and properties of Ti-45Al-5V intermetallic alloy 865/3
- Eilmes A. see Munn R.W. 637/3
- Eilmes A., Stabilization energies in charged tetracene clusters. Quantum chemical and micro-electrostatic calculations 629/3
- El-Nahass M.M., Farid A.M., Amer H.H., Abdel-Rahman K.F., Ali H.A.M., Electrical properties of tin phthalocyanine-based heterostructures: SnPcCl₂/GaP, SnPcCl₂/InP and SnPcCl₂/GaAs 385/2
- Eranna G. see Chopra S. 559/2
- Falamaki C., Beyhaghi M., Slip casting process for the manufacture of tubular alumina micro-filtration membranes 427/2
- Fan B. see Wang L. 547/2
- Farid A.M. see El-Nahass M.M. 385/2
- Feng H. see Li Y. 551/2
- Feng W.J., Li D., Zhang Q., Deng Y.F., Ma S., Zhang Z.D., Structure, magnetic and electrical transport properties of Mn_{4-x}Ag_xN compounds 33/1
- Fu C., Pan F., Cai W., Deng X., Liu X., Relaxor characteristics of ferroelectric BaZr_{0.2}Ti_{0.8}O₃ ceramics 891/3
- Fukada M. see Kohn H. 727/3
- Garbarczyk J.E. see Józwiak P. 307/1
- Gendron F. see Józwiak P. 307/1
- Gielniak J., Graczkowski A., Gubański S., Moranda H., Mościcka-Grzesiak H., Walczak K., Influence of thermal ageing on dielectric response of oil-paper insulation 1199/4/2
- Gögebakan M., Avar B., Uzun O., Quasicrystalline phase formation in the conventionally solidified Al-Cu-Fe system 919/3
- Gögebakan M., Okumus M., Structure and crystallization kinetics of amorphous Al-Ni-Si alloy 79/1
- Górecki L. see Górnicka B. 1237/4/2
- Górnicka B., Górecki L., Method of assessment of varnishes modified with nanofillers 1237/4/2
- Gorzowska I. see Józwiak P. 307/1
- Gotszalk T. see Sikora A. 1171/4/2
- Goudarzi A. see Salarian M. 961/4/1
- Graczkowski A. see Gielniak J. 1199/4/2
- Graja A.J. see Olejniczak I. 619/3
- Grazuleviciene V. see Budreckiene R. 61/1
- Grazulevicius J.V. see Budreckiene R. 61/1
- Gubański A., Mielcarek W., Prociów K., Warycha J., Wróbel J.M., The effect of aluminium additive on the electrical properties of ZnO varistors 1207/4/2
- Gubański S.M. see Sjöstedt H. 1129/4/2
- Gubański S. see Gielniak J. 1199/4/2
- Guo M., Deng H., Yang P., Synthesis and characterization of nanoscale Bi₂Cu_{0.1}V_{0.9}O_{5.35} powders by solution-based chemical methods 1055/4/1
- Guo Q. see Zhang H. 885/3
- Guo Y. see Li Y. 187/1
- Guo Y. see Liu X. 1009/4/1
- Gupta R.K. see Choudhary R. 1025/4/1
- Gupta R.P. see Chopra S. 559/2
- Hain J. see Rais D. 769/3

Halladj R. see Askari S.	397/2
Hamáček A. see Rais D.	769/3
Han G. see Wang Y.	219/1
Han G. see Wang Y.	471/2
Hanuza J. see Ciurla H.	5/1
He S. see Wang J.	477/2
He S. see Wang J.	501/2
Henkel K. see Schmeisser D.	141/1
Hong Y.-S. see Yuan C.-L.	509/2
Hu L. see Zhang Y.	89/1
Hu Q.H. see Sun G.	1033/4/1
Hu S. see Li Y.	453/2
Hu T. see Zhang Y.	89/1
Hua L. see Jin Y.	171/1
Huang F., Lu X.-Z., Zhang Y.-F., Luo X.-Y., Yu C., Wu R., A new composite, Co–Sn metal oxide anode for lithium ion batteries	239/1
Huang W. see Lin J.	329/1
Husanu E. see Carja G.	909/3
Hussaini S.S., Dhumane N.R., Dongre V.G., Shirsat M.D., Growth and characterization of an NLO material – crystal of triglycine acetate	365/2
Hwang K.-S., Hwangbo S., Kim J.-T., The influence of the prefiring temperature on the structure and surface morphology of sol-gel derived ZnO film	159/1
Hwangbo S. see Hwang K.-S.	159/1
Iwamoto M. see Kohn H.	727/3
Iwamoto M. see Manaka T.	709/3
Iwamoto M. see Ohshima Y.	719/3
Izadpanah M.R., Dezfoli A.R.A., Prediction of the thermal shock resistance of refractory materials using <i>R</i> values	131/1
Jankauskas V. see Budreckiene R.	61/1
Jarosz G. see Signerski R.	757/3
Jauberthie R. see Baltakys K.	1077/4/1
Jeszka J.K. see Pietrzak Ł.	693/3
Ji Y. see Ma J.	981/4/1
Jiang Z. see Wang J.	477/2
Jin Y., Hua L., Xu X., Peng Q., The effect of electromagnetic stirring on the microstructure and corrosion of mischmetal modified AZ91D magnesium alloy	171/1
Jing X. see Wang J.	477/2
Jing X. see Wang J.	501/2
Jose G. see Adiyodi A.K.	297/1
Joseph X. see Adiyodi A.K.	297/1
Joshi B.C. see Chopra S.	559/2
Józwiak K. see Kasprzak W.	1219/4/2
Józwiak P., Garbarczyk J.E., Wasiucionek M., Gorzkowska I., Gendron F., Mauger A., Julien C., The thermal stability, local structure and electrical properties of lithium-iron phosphate glasses	307/1
Juan A. see Simonetti S.I.	595/2
Judes J., Kamaraj V., Preparation and characterization of yttria stabilized zirconia minispheres by the sol-gel drop generation method	407/2
Julien C. see Józwiak P.	307/1
Jyothy P.V. see Adiyodi A.K.	297/1
Kalinowski J., Excimers and exciplexes in organic electroluminescence	735/3

- Kamaraj V. see Judes J. 407/2
- Kamenka D. see Patsch R. 1157/4/2
- Kantautas A. see Vaičiukyniene D. 417/2
- Karášková M. see Počekaylov S. 781/3
- Kasprzak W., Nadolny Z., Walczak K., Siodła K., Sikorski W., Józwiak K., Paściak G., Moroń L.,
The influence of barium titanate as a filler in impregnating epoxy resin on chosen electrical
parameters of obtained material 1219/4/2
- Kaszuwara W. see Pawłowska G. 51/1
- Kędzia J. see Wolny S. 1263/4/2
- Khaw C.C. see Tan K.B. 947/4/1
- Khaw C.C. see Tan K.B. 825/3
- Kim H.-J. see Choi S.-H. 603/2
- Kim J.-T. see Hwang K.-S. 159/1
- Kim Y.-Y. see Choi S.-H. 603/2
- Kohn H. see Ohshima Y. 719/3
- Kohn H., Fukada M., Ohshima Y., Manaka T., Iwamoto M., Circular dichroism and electro-
luminescence of poly(diacetylene) film with chirality 727/3
- Korabik M. see Ciurla H. 5/1
- Koszykowska M., Tokarek M., Kucharski S., Synthesis and photochromic properties of poly
[N-vinyl-2-(phenylazo)-imidazole] derivatives in the near UV range 699/3
- Kotyński A. see Żurowska B. 999/4/1
- Král K.L. see Menšík M. 671/3
- Krasnov V. see Baganov Ye. 355/2
- Krause T., Moroń L., Motyl E., Żyłka P., Space charge decay in low density polyethylene
–montmorillonite clay multilayer nanocomposites 1189/4/2
- Kucharski S. see Koszykowska M. 699/3
- Kuliński R. see Zawadzka E. 1271/4/2
- Kumar Singh A. see Thakur O.P. 839/3
- Kumari K. see Prasad K. 373/2
- Kundu D. see Mahata S. 463/2
- Kurjata J. see Uznański P. 659/3
- Kurzydłowski K.J. see Matysiak H. 1103/4/1
- Laishram K. see Choudhary R. 1025/4/1
- Lebed O. see Baganov Ye. 355/2
- Lee C.K. see Tan K.B. 947/4/1
- Lee C.K. see Tan K.B. 825/3
- Lee K.-W. see Choi S.-H. 603/2
- Li D. see Feng W.J. 33/1
- Li D. see Shao W. 97/1
- Li L.X., Zhang D.T., Li M., Wang H.X., Amorphous phase formation of Zr–Cu thin films
fabricated by magnetron co-sputtering 539/2
- Li M. see Li L.X. 539/2
- Li Y. see Liu X. 1009/4/1
- Li Y.W. see Sun G. 1033/4/1
- Li Y., Feng H., Zhang N., Liu C., Hydrothermal synthesis and characterization of tube-
structured ZnO needles 551/2
- Li Y., Hu S., Oxidation of activated carbon fibre and its adsorption of amylase 453/2
- Li Y., Liu X., Zou Y., Guo Y., The growth morphology of ZnO hexangular tubes synthesized
by the solvothermal method 187/1
- Li Z. see Wang J. 477/2

- Li Z. see Wang J. 501/2
- Lim E. see Manaka T. 709/3
- Lim E. see Ohshima Y. 719/3
- Lin H. see Wang Z. 493/2
- Lin J., Huang W., Ma L., Bian Q., Qin S., Wei H., Chen J., Crystallization of $\text{TeO}_2\text{-Nb}_2\text{O}_5$ glasses and their network structural evolution 329/1
- Liu A.S., Oliveira M.A.S., Characterization of polypyrrole films deposited on aluminum surfaces from oxalic acid aqueous solution 265/1
- Liu C. see Li Y. 551/2
- Liu J. see Cao X. 287/1
- Liu L. see Zhang H. 885/3
- Liu R.-F. see Xiao X -F. 23/1
- Liu X. see Fu C. 891/3
- Liu X. see Li Y. 187/1
- Liu X., Li Y., Guo Y., Blue shift of photoluminescence of $\text{Al}_2\text{O}_3\text{-morin}$ nanocomposites 1009/4/1
- Łój G. see Nocuń-Wczelik W. 933/4/1
- Lu M. see Zhou J. 73/1
- Lu X.-Z. see Huang F. 239/1
- Luo X.-Y. see Huang F. 239/1
- Luz da M.S., Santos dos C.A.M., Shigue C.Y., Carvalho de F.J.H. Jr., Machado A.J.S., The van der Pauw method of measurements in high- T_c superconductors 569/2
- Ma J., Ji Y., Tian M., Preparation and characterization of La- and Ni-doped magnetite nanoparticles 981/4/1
- Ma L. see Lin J. 329/1
- Ma S. see Feng W.J. 33/1
- Machado A.J.S. see Luz da M.S. 569/2
- Mahata S., Kundu D., Hydrothermal synthesis of aqueous nano- TiO_2 sols 463/2
- Majumder S., Synthesis and characterisation of SnO_2 films obtained by a wet chemical process 123/1
- Malinowski J.J. see Dercz G. 201/1
- Manaka T. see Kohn H. 727/3
- Manaka T. see Ohshima Y. 719/3
- Manaka T., Nakao M., Lim E., Iwamoto M., Ambipolar injection into pentacene field effect transistor observed by time-resolved optical second harmonic generation imaging 709/3
- Mandal D. see Schmeisser D. 141/1
- Markiewicz E., Paukszta D., Borysiak S., Dielectric properties of lignocellulosic materials –polypropylene composites 581/2
- Marczyszyn K. see Olesiak J. 813/3
- Matysiak H., Michalski J., Balkowiec A., Sikorski K., Kurzydłowski K.J., Surface defects of investment castings of turbofan engine components made of IN713C nickel superalloy 1103/4/1
- Mauger A. see Józwiak P. 307/1
- Maurya D. see Vikram S.V. 193/1
- Mazurek B. see Świerzyzna Z. 1243/4/2
- Mazurek B. see Zawadzka E. 1271/4/2
- Mazurek W. see Bryszewska-Mazurek A. 1257/4/2
- Mehra R.M. see Sharma R. 225/1
- Mehra R.M. see Srivastava N.K. 109/1
- Mei B.C. see Zhou W.B. 973/4/1
- Menšík M., Král K.L., Nonradiative electron and energy transfer.Explicit estimation of the influence of coherent and dephasing processes in a vibrational bath on electronic dynamics 671/3
- Menzel J. see Patsch R. 1157/4/2

Michalski J. see Matysiak H.	1103/4/1
Mielcarek W. see Gubański A.	1207/4/2
Mojzisova H. see Olesiak J.	813/3
Montaño R. see Sjöstedt H.	1129/4/2
Moranda H. see Gielniak J.	1199/4/2
Moroń L. see Kasprzak W.	1219/4/2
Moroń L. see Krause T.	1189/4/2
Mościcka-Grzesiak H. see Gielniak J.	1199/4/2
Motyl E. see Krause T.	1189/4/2
Mroziński J. see Ciurla H.	5/1
Muhr M., Schwarz R., Experience with optical partial discharge detection	1139/4/2
Müller K. see Schmeisser D.	141/1
Munn R.W., Eilmes A., Scarle S., Sterzel M., Simulation of ion transport through poly(ethylene oxide) loaded with lithium perchlorate	637/3
Nadolny Z. see Kasprzak W.	1219/4/2
Nakao M. see Manaka T.	709/3
Narksitipan S., Bannuru T., Brown W.L., Vinci R.P., Thongtem S., Deposition of Au, Au-V and Au-VO _x on Si wafers by co-sputtering technique	485/2
Nasernejad B. see Askari S.	397/2
Ndong W. see Brosseau C.	1117/4/2
Nemati A. see Salarian M.	961/4/1
Nešpůrek S. see Pochekeylov S.	781/3
Nešpůrek S. see Rais D.	769/3
Nešpůrek S. see Toman P.	797/3
Ni C. see Yao B.	319/1
Ni Z. see Yao B.	319/1
Nocuń M. see Nocuń-Wczelik W.	933/4/1
Nocuń-Wczelik W., Nocuń M., Łój G., Interaction of Pb with hydrating alite paste.XPS studies of surface products	933/4/1
Ochocki J. see Żurowska B.	987/4/1
Ochocki J. see Żurowska B.	999/4/1
Ogasawara T. see Santos J.G.	1067/4/1
Ohshima Y. see Kohn H.	727/3
Ohshima Y., Kohn H., Lim E., Manaka T., Iwamoto M., Observation of electron injection in an organic field-effect transistor with electroluminescence	719/3
Okumus M. see Gögebakan M.	79/1
Olejniczak I., Barszcz B., Graja A., Schlueter A.J., Optical study of β''-(bis(ethylenedithio)-tetrathiafulvalene) ₂ SF ₅ CH ₂ SO ₃ .Activation of intramolecular modes	619/3
Olejniak J. see Świerzyzna Z.	1243/4/2
Olesiak J., Matczyszyn K., Mojzisova H., Zielinski M., Chauvat D., Zyss J., Liquid crystalline phases in DNA and dye-doped DNA solutions analysed by polarized linear and nonlinear microscopy and differential scanning calorimetry	813/3
Oliveira M.A.S. see Liu A.S.	265/1
Olszowa G. see Cabaj J.	685/3
Pająk L. see Dercz G.	201/1
Pan F. see Fu C.	891/3
Pandey K.K. see Singh R.K.	1041/4/1
Park S.-H. see Choi S.-H.	603/2
Paściak G. see Chmielowiec J.	1251/4/2
Paściak G. see Kasprzak W.	1219/4/2

- Paściak G. see Świerzyzna Z. 1243/4/2
- Patsch R., Kamenka D., Menzel J., Return voltage measurements. Diagnostic interpretations based on the dielectric time constants 1157/4/2
- Paukszta D. see Markiewicz E. 581/2
- Pawłowska G., Kaszuwara W., Bala H., The effect of Cr, Co, W, Zr and Pb (M) substitution on the structure and corrosion resistance of nanocrystalline $\text{Nd}_{10}\text{Fe}_{84-x}\text{M}_x\text{B}_6$ magnets 51/1
- Pei L.Z., Silicon oxide nanowires and spheres grown by hydrothermal deposition 339/1
- Pelech R. see Czech Z. 851/3
- Peng Q. see Jin Y. 171/1
- Phuruangrat A. see Thongtem T. 43/1
- Pich A. see Rais D. 769/3
- Pielaszek R. see Dercz G. 201/1
- Pietrzak L., Jeszka J.K., Gold nanoparticles grown on multiwall carbon nanotubes 693/3
- Pochekailov S. see Rais D. 769/3
- Pochekaylov S., Rais D., Nešpůrek S., Rakušan J., Karásková M., Electronic and gas sensing properties of soluble phthalocyanines 781/3
- Prasad K., Kumari K., Chandra K.P., Yadav K.L., Sen S., Dielectric relaxation and ac conductivity of WO_3 added $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3$ ceramic 373/2
- Prociów K. see Gubański A. 1207/4/2
- Prusik K. see Dercz G. 201/1
- Pudło W. see Dercz G. 201/1
- Qin S. see Lin J. 329/1
- Qu Y. see Zhang C. 443/2
- Rais D. see Pochekaylov S. 781/3
- Rais D., Hain J., Pich A., Pochekailov S., Nešpůrek S., Adler H.-J.P., Hamáček A., Řeboun J., Electrical conductivity in thin films fabricated from nanoparticles of a polymeric composite based on PEDOT 769/3
- Rakušan J. see Pochekaylov S. 781/3
- Razavi M. see Razavi Tousi S.S. 875/3
- Razavi Tousi S.S., Yazdani Rad R., Salahi E., Razavi M., Effect of milling time and addition of alumina powder on the structural properties and fracture surface of nanocrystalline Al 875/3
- Řeboun J. see Rais D. 769/3
- Ren Z. see Wang Y. 219/1
- Ren Z., Wang Y. 471/2
- Salahi E. see Razavi Tousi S.S. 875/3
- Salarian M., Solati-Hashjin M., Sara Shafiei S., Goudarzi A., Salarian R., Nemati A., Surfactant-assisted synthesis and characterization of hydroxyapatite nanorods under hydrothermal conditions 961/4/1
- Salarian R. see Salarian M. 961/4/1
- Salleh M.M. see Yap C.C. 209/1
- Salyk O., Bednář P., Vala M., Vyňuchal J., Sensoric properties of aromatic and heterocyclic compounds with conjugated bonds 649/3
- Santos dos C.A.M. see Luz da M.S. 569/2
- Santos J.G., Ogasawara T., Corrêa R.A., Synthesis of nanocrystalline rutile-phase titania at low temperatures 1067/4/1
- Sara Shafiei S. see Salarian M. 961/4/1
- Scarle S. see Munn R.W. 637/3
- Schlueter A. see Olejniczak I. 619/3
- Schmeisser D., Tallarida M., Henkel K., Müller K., Mandal D., Chumakov D., Zschech E., Characterization of oxidic and organic materials with synchrotron radiation based XPS and XAS 141/1

- Schwarz R. see Muhr M. 1139/4/2
- Sen S. see Prasad K. 373/2
- Serdyuk Y. see Sjöstedt H. 1129/4/2
- Shaari H. see Tan K.B. 947/4/1
- Shaari H. see Tan K.B. 825/3
- Shafiei A.M., A new model for the effect of grain size on the elastic modulus of nanocrystalline materials 279/1
- Shao W., Chen S., Li D., Cao H., Zhang S., Construction of the master sintering curve for submicron size α -Al₂O₃ based on non-isothermal sintering containing lower heating rates only 97/1
- Sharma R., Shishodia P.K., Wakahara A., Mehra R.M., Investigations of highly conducting and transparent Sc doped ZnO films grown by the sol-gel process 225/1
- Sheen G. see Wang Y. 471/2
- Shen G. see Wang Y. 219/1
- Shi J. see Zhang H. 885/3
- Shigue C.Y. see Luz da M.S. 569/2
- Shirsat M.D. see Hussaini S.S. 365/2
- Shishodia P.K. see Sharma R. 225/1
- Shutov S. see Baganov Ye. 355/2
- Siauciunas R. see Baltakys K. 255/1
- Signerski R., Jarosz G., Photoelectric properties of WO₃/tetracene heterojunctions 757/3
- Signerski R., Photovoltaic properties of organic heterojunctions formed from tetracene and zinc hexadecafluorophthalocyanine 763/3
- Sikora A., Gotszalk T., Szeloch R., Nanoscale evaluation of thin oxide film homogeneity with combined shear force emission microscope 1171/4/2
- Sikorski K. see Matysiak H. 1103/4/1
- Sikorski W. see Kasprzak W. 1219/4/2
- Simonetti S.I., Brizuela G.P., Juan A., A computational study of hydrogen embrittlement phenomena in an iron nickel based alloy 595/2
- Singh M.P. see Singh R.K. 1041/4/1
- Singh R.K., Pandey K.K., Singh M.P., Singh R.P., Acoustical investigations of uranium chalcogenides 1041/4/1
- Singh R.P. see Singh R.K. 1041/4/1
- Siodła K. see Kasprzak W. 1219/4/2
- Sjöstedt H., Montañó R., Serdyuk Y., Gubański S.M., Charge relaxation on surfaces of polymeric insulating materials for outdoor applications 1129/4/2
- Skomudek W., Comparative analysis of lightning overvoltages in distribution lines on the ground of laboratory tests and measurements 1147/4/2
- Solati-Hashjin M. see Salarian M. 961/4/1
- Sołoducho J. see Cabaj J. 685/3
- Song H. see Yao B. 319/1
- Song Y. see Zhang H. 885/3
- Srivastava N.K., Mehra R.M., Study of the electrical properties of polystyrene–foliated graphite composite 109/1
- Stankowski J., Waplak S., Damage to TGS crystals caused by hydrostatic pressure 249/1
- Sterzel M. see Munn R.W. 637/3
- Subocz J., Application of the FDS method for assessment of HV epoxy–mica–glass insulation 1229/4/2
- Sun G., Li Y.W., Hu Q.K., Wu Q.H., Yu D.L., Non-stoichiometric boron carbide synthesized in moderate temperature conditions 1033/4/1
- Sun X.S. see Wu X. 857/3

- Sung Y. see Yuan C.-L. 509/2
- Świerzyzna Z., Paściak G., Mazurek B., Olejnik J., Modification of the composition and technology of the processing of ceramic-polymer insulators 1243/4/2
- Szeloch R. see Sikora A. 1171/4/2
- Szubzda B. see Zawadzka E. 1271/4/2
- Talik Z. see Ciurla H. 5/1
- Tallarida M. see Schmeisser D. 141/1
- Tan K.B., Khaw C.C., Lee C.K., Zainal Z., Tan Y.P., Shaari H., High temperature impedance spectroscopy study of non-stoichiometric bismuth zinc niobate pyrochlore 825/3
- Tan K.B., Khaw C.C., Lee C.K., Zainal Z., Tan Y.P., Shaari H., High temperature impedance spectroscopy study of non-stoichiometric bismuth zinc niobate pyrochlore 947/4/1
- Tan Y.P. see Tan K.B. 947/4/1
- Tan Y.P. see Tan K.B. 825/3
- Tang X., Yang Y.G., Composition and magnetic properties of M-Ba ferrite powders fabricated via sugar-nitrates process 529/2
- Thakur O.P., Kumar Singh A., Electrostriction and electromechanical coupling in elastic dielectrics at nanometric interfaces 839/3
- Thongtem S. see Narksitipan S. 485/2
- Thongtem S. see Thongtem T. 43/1
- Thongtem T., Phuruangrat A., Thongtem S., Characterization of nanocrystalline $\text{LiNi}_{1-x}\text{Co}_x\text{VO}_4$ prepared by the polymerized complex method 43/1
- Tian M. see Ma J. 981/4/1
- Tian T. see Xiao X. -F. 23/1
- Tokarek M. see Koszykowska M. 699/3
- Toman P., Nešpůrek S., Bartkowiak W., Modelling of charge carrier transport in conjugated polymers doped by polar additives 797/3
- Unnikrishnan N.V. see Adiyodi A.K. 297/1
- Uznański P., Kurjata J., Bryszewska E., Modification of gold nanoparticle surfaces with pyrene disulfide in ligand-protected exchange reactions 659/3
- Uzun O. see Göğebakan M. 919/3
- Vaičiukyniene D., Baltakys K., Kantautas A., Hydrosodalite ion exchange in saturated $\text{Ca}(\text{OH})_2$ solution 417/2
- Vala M. see Salyk O. 649/3
- Vikram S.V., Maurya D., Chandel V.S., The effect of paramagnetic doping on the dielectric response of $\text{K}_{1.85}\text{Na}_{0.15}\text{Ti}_4\text{O}_9$ layered ceramics 193/1
- Vinci R.P. see Narksitipan S. 485/2
- Vyňuchal J. see Salyk O. 649/3
- Wakahara A. see Sharma R. 225/1
- Walczak K. see Kasprzak W. 1219/4/2
- Walczak K. see Mościcka-Grzesiak H. 1199/4/2
- Wan J. see Cao X. 287/1
- Wang H. see Cao X. 287/1
- Wang H. see Li L.X. 539/2
- Wang J., He S., Li Z., Jing X., Zhang M., Synthesis of claw-like CuO and its catalytic activity in the thermal decomposition of ammonium perchlorate 501/2
- Wang J., He S., Zhang S., Li Z., Yang P., Jing X., Zhang M., Jiang Z., Controllable synthesis of ZnO nanostructures by a simple solution route 477/2
- Wang K. see Zhang H. 885/3
- Wang L., Fan B., Wang Z., Cheng X., Wu Y., Chen L., Effects of substrate temperature on crystallite orientation of HfO_2 thin films 547/2

- Wang Q. see Liu X. 1009/4/1
- Wang R. see Zhou J. 73/1
- Wang Y., Xu G., Yang L., Ren Z., Wei X., Weng W., Du P., Sheen G., Han G., Room-temperature ferromagnetism in Fe-doped $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ crystals 471/2
- Wang Y., Xu G., Yang L., Ren Z., Wei X., Weng W., Du P., Shen G., Han G., Enhancement of ferromagnetic properties in Ni-doped BiFeO_3 219/1
- Wang Z. see Wang L. 547/2
- Wang Z., Tong R., Lin H., Yang D., Influence of WO_3 content on the optical properties of Eu^{3+} -doped Bi_2O_3 - B_2O_3 - WO_3 glasses 493/2
- Waplak S. see Stankowski J. 249/1
- Warycha J. see Gubański A. 1207/4/2
- Wasiucionek M. see Józwiak P. 307/1
- Wei H. see Lin J. 329/1
- Wei X. see Wang Y. 219/1
- Wei X. see Wang Y. 471/2
- Weng W. see Wang Y. 219/1
- Weng W. see Wang Y. 471/2
- Wiktorczyk T., Broadband dielectric spectroscopy of $\text{Al}/\text{Lu}_2\text{O}_3/\text{Al}$ thin film sandwiches 1179/4/2
- Witzak Z. see Dymek S. 865/3
- Wolny S., Kędzia J., Zdanowski M., Novel method of charge mobility assignation in liquid dielectrics by streaming electrification 1263/4/2
- Wróbel J.M. see Gubański A. 1207/4/2
- Wróbel M. see Dymek S. 865/3
- Wu Q.H. see Sun G. 1033/4/1
- Wu R. see Huang F. 239/1
- Wu X.J., Xu X.W., Sun X.S., Magnetic properties of mechanically milled nanosized Mn 857/3
- Wu Y. see Wang L. 547/2
- Xiao X.-F., Liu R.-F., Tian T., Preparation and bioactivity of embedded-style hydroxyapatite-titania nanotube arrays 23/1
- Xie L. see Cao X. 287/1
- Xu G. see Wang Y. 219/1
- Xu G. see Wang Y. 471/2
- Xu X. see Jin Y. 171/1
- Xu X.W. see Wu X. 857/3
- Yadav K.L. see Prasad K. 373/2
- Yahaya M. see Yap C.C. 209/1
- Yan X. see Cao X. 287/1
- Yang C. see Yao B. 319/1
- Yang D. see Wang Z. 493/2
- Yang L. see Wang Y. 219/1
- Yang L. see Wang Y. 471/2
- Yang P. see Guo M. 1055/4/1
- Yang P. see Wang J. 477/2
- Yang Y.G. see Tang X. 529/2
- Yao B., Yang C., Zhang K., Ni C., Song H., Ni Z., Chen M., Syntheses and characterization of pH-sensitive hydrogel from poly(γ -glutamic acid) 319/1
- Yap C.C., Yahaya M., Salleh M.M., The effect of DCJTb concentration on the photoluminescent and electroluminescent properties of PVK-PBD-perylene-DCJTb thin films 209/1
- Yazdani Rad R. see Razavi Tousi S.S. 875/3
- Yu C. see Huang F. 239/1

Yu D.L. see Sun G.	1033/4/1
Yuan C.-L., Chang C.-P., Hong Y.-S., Sung Y., Fabrication of MWNTs–PANI composite – a chemiresistive sensor material for the detection of explosive gases	509/2
Zainal Z. see Tan K.B.	947/4/1
Zainal Z. see Tan K.B.	825/3
Zawadzka E., Kuliński R., Szubzda B., Mazurek B., Polyaniline–multi-walled carbon nano-tube shell-core composite as an electrode material in supercapacitors	1271/4/2
Zdanowski M. see Wolny S.	1263/4/2
Zhai G. see Zhang H.	885/3
Zhang A., Zhang J., The effect of hydrothermal temperature on the synthesis of monoclinic bismuth vanadate powders	1015/4/1
Zhang C., Qu Y., Influence of antimony oxide on the dielectric properties of barium strontium titanate based ceramics	443/2
Zhang D.T. see Li L.X.	539/2
Zhang H., Shi J., Song Y., Zhao J., Wang K., Guo Q., Zhai G., Liu L., Effect of growth time on the morphologies of vapour grown carbon fibres and a suggested mechanism of growth	885/3
Zhang J. see Zhang A.	1015/4/1
Zhang K. see Yao B.	319/1
Zhang M. see Wang J.	477/2
Zhang M. see Wang J.	501/2
Zhang N. see Li Y.	551/2
Zhang Q. see Feng W.J.	33/1
Zhang S. see Shao W.	97/1
Zhang S. see Wang J.	477/2
Zhang Y., Hu L., Hu T., Chen J., Preparation and pressureless sintering of nanostructured zirconia–titania composite powders	89/1
Zhang Y.-F. see Huang F.	239/1
Zhang Z.D. see Feng W.J.	33/1
Zhao J. see Zhang H.	885/3
Zhou G. see Zhou J.	73/1
Zhou J., Zhou G., Wang R., Lu M., Synthesis in aqueous phase and characterization of silver nanorods and nanowires	73/1
Zhou W.B., Mei B.C., Zhu J.Q., On the synthesis and properties of bulk ternary Cr ₂ AlC ceramics	973/4/1
Zhu J.Q. see Zhou W.B.	973/4/1
Zielinski M. see Olesiak J.	813/3
Zou Y. see Li Y.	187/1
Zschech E. see Schmeisser D.	141/1
Żurowska B., Białońska A., Ochocki J., Structure and characterization of copper(II) perchlorate with diethyl(pyridin-2-ylmethyl) phosphonate (2-pmpe) ligand: [Cu(2-pmpe) ₂ (ClO ₄) ₂]	987/4/1
Żurowska B., Kotyński A., Ochocki J., Coordination properties of the diethyl (pyridyn-3-yl-methyl)phosphonate ligand (3-pmpe) with nitrate transition metal salts	999/4/1
Żyłka P. see Krause T.	1189/4/2
Zyss J. see Olesiak J.	813/3

Key Word Index*

Al–Cu–Fe	919/3	calcium sulfate	1091/4/1
α -Al ₂ O ₃	97/1	calorimetry	79/1, 813/3, 933/4/1
alite	933/4/1	capacitors	443/2
ac conductivity	373/2	carbon black	521/2
activated carbon fibre	453/2	carbon nanotubes	521/2, 693/3, 1271/4/2
activation energy	825/3, 947/4/1	carrier injection	709/3
adhesion	851/3	catalytic activity	501/2
adsorption	255/1, 453/2	cathode material	307/1
AFM	685/3, 1171/4/2	cation exchange	899/3
Ag ₂ V ₄ O ₁₁ additive	287/1	ceramics	891/3, 973/4/1
ageing	1157/4/2, 1207/4/2	cerium	909/3
Al additive	1207/4/2	charge carrier transport	797/3
alkylaminoacetylureas	5/1	charge mobility	61/1
alloy	595/2	charge ordering	619/3
alumina	265/1, 427/2	chemical synthesis	501/2, 1033/4/1
amino acid	365/2	chirality	727/3
amorphous alloys	79/1	chromium aluminum carbide	973/4/1
amorphous film	539/2	circularly polarized light	727/3
amylase	453/2	composite insulators	1129/4/2
anode materials	239/1	composites	23/1, 1243/4/2
antiferromagnetism	33/1, 857/3	computer simulation	1147/4/2
apparent activation energy	97/1	condensation	1257/4/2
Au, Au–V, Au–VO _x thin films	485/2	conductivity	649/3
		conjugated polymers	797/3
ball milling	875/3	conventional solidification	919/3
barium strontium titanate	443/2	copper(II)	909/3, 987/4/1
barium zirconium titanate	891/3	copper(II) complexes	5/1
BaTiO ₃	1219/4/2	core shell particles	769/3
BEDT-TTF	619/3	corrosion	51/1, 171/1
Bi	355/2	Co–Sn composite oxides	239/1
Bi ₂ O ₃ –B ₂ O ₃ –WO ₃ system glasses	493/2	crosslinking	319/1
bimolecular excited states	735/3	crystal break-up	249/1
bioactivity	23/1	crystal growth	365/2, 501/2
biomaterial	23/1	crystallite re-orientation	547/2
biosensor	685/3	crystallization	89/1, 329/1, 539/2
bismuth vanadate	1015/4/1	crystal structure	987/4/1
bismuth zinc niobate	825/3, 947/4/1	C–S–H (I)	1077/4/1
BIVOX	1251/4/2		
bond strength	1237/4/2	DCJTB	209/1
boundary polarization	1157/4/2	dielectric properties	193/1, 1179/4/2
calcium silicate hydrate	255/1, 899/3, 1091/4/1, 1077/4/1	dielectric relaxation	373/2
		dielectric response	825/3, 947/4/1, 1199/4/2

*Page number/Issue number.

dielectric time constants	1157/4/2	field emission	1171/4/2
dielectrics	443/2	field-effect transistor	719/3
diffuse phase transition	891/3	fracture surface	875/3
diphenylamine derivatives	685/3	FTIR	123/1, 559/2
dipyridyldiketopyrrolopyrrole	649/3	fuel cell	1251/4/2
direct methanol fuel cell	521/2	functionalization	659/3
dislocations	355/2		
Disperse Orange 3	813/3	GaAs	355/2
DNA liquid crystal phases	813/3	gas sensor	603/2
doped Fe ₃ O ₄	981/4/1	gas specificity	603/2
doping effects	443/2	gate oxide tests	1171/4/2
		glass	61/1, 307/1, 329/1
effective permittivity	1117/4/2	gold nanoparticles	659/3, 693/3
EHD heat transfer enhancement	1257/4/2	grain size	279/1
elastic constants	1041/4/1	gyrolite	255/1, 899/3, 1077/4/1, 1091/4/1
elastic modulus	279/1		
elastomers	839/3	hafnium dioxide	547/2
electric insulation	1243/4/2	hardness	485/2
electric permittivity	297/1	heat pipe	1257/4/2
electrical properties	109/1, 581/2	heat treatment	919/3
electrical resistivity	485/2	HfO ₂	141/1
electrical strength	1237/4/2	high resolution transmission electron microscopy (HR-TEM)	397/2
electrochemical performance	287/1	high-k oxide	141/1
electrochromism	637/3	hot-pressing	973/4/1
electroluminescence	209/1, 719/3, 727/3	humidity sensitivity	769/3
electron conduction	307/1	hybrid heterojunction	757/3
electron detachment energy	629/3	hydration	933/4/1
electron energy loss spectroscopy	1033/4/1	hydrogen passivation	559/2
electron microscopy	187/1, 885/3	hydrogen	595/2
electron paramagnetic resonance	193/1	hydrolysis	453/2
electron-phonon interactions	617/3	hydrosodalite	417/2
electron-vibrational interaction	671/3	hydrothermal deposition	339/1
electrostriction	839/3	hydrothermal method	219/1, 1015/4/1
ellipsometry	699/3	hydrothermal synthesis	551/2
embrittlement	595/2	hydrothermal temperature	1015/4/1
emission spectrum	493/2	hydrothermal treatment	23/1, 463/2
energy dispersive X-ray analysis	397/2	hydroxyapatite	961/4/1
epoxy resin	1219/4/2	hysteresis loop	891/3
epoxy-mica-glass insulation	1229/4/2		
ESR	5/1	impedance spectroscopy	373/2, 825/3, 947/4/1
Eu ³⁺ ions	493/2	impregnating varnish	1237/4/2
exchange bias	857/3	IN713C	1103/4/1
excited state decay	671/3	induced overvoltage	1147/4/2
explosive	509/2	infrared spectroscopy	307/1
		insulation interface	1189/4/2
FDS, quality test	1229/4/2	intermetallics	865/3
Fe-doped Na _{0.5} Bi _{0.5} TiO ₃ crystals	471/2	investment casting	1103/4/1
ferroelectric instability	249/1	ion exchange	417/2
ferroelectrics	471/2	ion transport simulation	637/3
ferromagnetic property	219/1		

ionic conduction	1055/4/1	modelling	131/1
ionization potential	61/1	moisture content in oil-paper insulation	1199/4/2
IR spectra	5/1, 649/3	molecular electronics	797/3
isovalent doping	355/2	Monte Carlo modelling	797/3
I - V characteristics	1207/4/2	morin	1009/4/1
Judd-Ofelt parameters	493/2	morphology	551/2, 961/4/1
		multi-walled carbon nanotubes	509/2
laccase	685/3	($\text{Na}_{1/2}\text{Bi}_{1/2}$) TiO_3	373/2
Langmuir-Blodgett films	685/3	Na-CMC	427/2
layered ceramics	193/1	nanocomposite	89/1, 981/4/1, 1009/4/1, 1189/4/2
LDPE insulation	1189/4/2	nanocrystalline $\text{LiNi}_{1-x}\text{Co}_x\text{VO}_4$	43/1
lead	933/4/1	nanocrystalline material	51/1, 201/1, 279/1
LiCoO_2	287/1	nanodielectric	839/3
ligand exchange	659/3	nanofiller	1219/4/2, 1237/4/2
lightning strokes	1147/4/2	nanomaterial	73/1, 307/1
lignocellulosic material	581/2	nanopowder	1025/4/1
liquid precipitating method	239/1	nanorods	961/4/1
lithium ion batteries	239/1, 287/1	nanoscale materials	339/1
lithium perchlorate	637/3	nanoscale powders	1055/4/1
lithium-iron phosphate	307/1	nanosized powder	857/3
low heating rate	97/1	nanostructure	477/2, 501/2
luminescence	5/1	nanostructured materials	875/3
lutetium oxide	1179/4/2	nano- TiO_2 sol	463/2
		nanotube array	23/1
magnesium alloy	171/1	Nd:YAG	1025/4/1
magnetic material	471/2, 981/4/1	near-infrared	735/3
magnetic properties	5/1	network structure	329/1
magnetic properties	529/2	nickel based superalloy	1103/4/1
magnetism	987/4/1, 999/4/1	Ni-doped BiFeO_3	219/1
magnetoresistance	33/1	niobium	329/1
magnetron sputtering	539/2	nitrogen dioxide sensor	781/3
master sintering curve	97/1	N,O ligand	999/4/1
Maxwell model	1157/4/2	non-adiabatic coupling	671/3
M-Ba ferrite powder	529/2	nonlinear optical materials	365/2
mechanical alloying	865/3	nonlinear polarimetry analysis	813/3
membrane	427/2	nonlinearity coupling constants	1041/4/1
mesoporosity	909/3	nonlinearity exponent	1207/4/2
methylene blue	297/1	non-stoichiometric boron carbide	1033/4/1
Meyer-Neldel rule	769/3		
MgO	201/1	oil insulation	1263/4/2
microgel	769/3	oil-paper insulation	1199/4/2
microhardness	297/1	OLED	73/1, 209/1, 477/2
microstructure	171/1, 885/3	optical properties	781/3
microwave spectroscopy	1117/4/2	optical second harmonic generation (SHG)	709/3
microwave-flash combustion	1025/4/1	optical spectrum	1139/4/2
MIM structures	1179/4/2	organic conductor	619/3
mischmetal	171/1	organic electroluminescence	735/3
mixed oxides	909/3	organic field effect transistor	709/3
mobility	1263/4/2	organic heterojunction	763/3

organic LEDs	735/3	quasicrystals	919/3
organic/inorganic heterojunction	385/2	Raman spectra	5/1, 123/1
outdoor insulation	1129/4/2	rapid solidification	79/1
overoxidation	265/1	rare earth oxides	1179/4/2
oxalic acid	265/1	reactive electron-beam evaporation	547/2
oxides	1067/4/1	reactive hydrazone	61/1
paper-oil insulation	1157/4/2	reflectance spectra	619/3
partial discharge	1139/4/2	refractory material	131/1
passivation	51/1	relaxation time	1129/4/2
Pb	355/2	reshaping	693/3
PCA	509/2	resonant energy transfer	671/3
PECVD	559/2	response pattern	603/2
peptization	463/2	return voltage	1157/4/2
percolation threshold	109/1	Rietveld refinement	201/1
permanent magnets	51/1	scandium doping	225/1
permittivity	1219/4/2	scanning electron microscopy (SEM)	109/1, 397/2
perylene	209/1	SEA technique	1189/4/2
2-(phenylazo)imidazole	699/3	self-assembly	477/2
phosphonic acid ester	987/4/1	SEM	201/1
phospho-olivines	307/1	shear force microscopy	1171/4/2
photochromic polymers	699/3	shell core composite	1271/4/2
photoconductivity	781/3	silicon nitride	559/2
photoluminescence	187/1, 209/1, 551/2, 559/2	silicon oxide nanowires and spheres	339/1
photoluminescence blue shift	1009/4/1	silver nanocomposite	397/2
photovoltaic effect	763/3	sintering	407/2
pH-sensitive hydrogel	319/1	slip casting	427/2
phthalocyanines	385/2	SnO ₂	123/1
plastroferrite	1117/4/2	SOFC	1251/4/2
PMMA	297/1	sol-gel method	159/1, 225/1, 407/2
polarization energy	629/3	solid electrolyte	1251/4/2
polarized light microscopy	813/3	solution-based chemical methods	1055/4/1
poly(diacetylene)	727/3	solvo-thermal method	187/1
poly(ethylene oxide)	637/3	sonication	1067/4/1
poly(γ -glutamic) acid	319/1	sonochemical treatment	397/2
polyaniline	509/2, 1271/4/2	space charge dynamics	1189/4/2
polymer composites	109/1	space charge field	719/3
polymer materials	1243/4/2	spectroscopy	999/4/1
polymer matrix composites	581/2	spin reorientation	33/1
polymerized complex method	43/1	streaming electrification	1263/4/2
polypyrrole	265/1	substituted phthalocyanine	781/3
polystyrene	769/3	sugar-nitrate process	529/2
porous silicon	603/2	supercapacitor	1271/4/2
power line	1147/4/2	superparamagnetism	981/4/1
pressureless sintering	89/1	surface anisotropy	857/3
pressure-sensitive adhesive	851/3	surface charge	1129/4/2
spectroscopy	987/4/1	surface modification	453/2
pulse resistance	1237/4/2	surfactant	961/4/1, 1055/4/1
pyrene	659/3	synchrotron radiation spectroscopy	141/1
pyrochlore	825/3, 947/4/1		

tartaric acid	43/1	ultrasonic method	1009/4/1
tellurite	329/1	UV absorption spectra	5/1
TEM	201/1	UV-VIS spectra	649/3
testing	1243/4/2		
tetracene	629/3, 719/3, 757/3, 763/3	vacancy	595/2
textural characteristics	909/3	vapour deposition	885/3
TGS crystal	249/1	vapour grown carbon fibres	885/3
thermal ageing	1199/4/2	vibrational coherence	671/3
thermal analysis	255/1, 407/2		
thermal degradation products	851/3	water absorption	1237/4/2
thermal resistance	851/3	white light emitting diodes	735/3
thermal shock resistance	131/1		
thin films	225/1, 1179/4/2	xerogel	201/1
Ti ₃ Al	865/3	xonotlite	1077/4/1
TiAl	865/3	XPS	933/4/1
Tiron	427/2	X-ray diffraction	79/1, 187/1, 255/1, 407/2
titania	23/1		529/2, 1033/4/1, 1067/4/1, 1077/4/1, 1091/4/1
Toraya procedure	201/1	X-ray technique	73/1
trans-cis photoisomerization	699/3	XRD	201/1
transition metal complexes	999/4/1		
transition temperature	1067/4/1	zinc naphthenate	477/2
transparent ceramics	1025/4/1	zinc oxide	159/1, 187/1, 225/1, 551/2
TSDC	1207/4/2	zinc perfluorophthalocyanine	763/3
tungsten oxide	637/3, 757/3	zirconia minispheres	407/2
turbine blades	1103/4/1	ZnO thin film	159/1
two photon fluorescence	813/3	ZnO varistors	1207/4/2
		Zr-Cu thin film	539/2
ultralow-k polymers	141/1	ZrO ₂ -Y ₂ O ₃ -TiO ₂	89/1
ultrasonic attenuation	1041/4/1		

