# Gopalan Muralidharan

List of Publications by Year
in descending order



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|---|---|---|---|
| 117 papers | 5,127 citations | 81839 39 h-index | 95218 68 g-index |
| 117 all docs | 117 docs citations | 117 times ranked | 5447 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The binder-free mesoporous CoNi2S4 electrode for high-performance symmetric and asymmetric supercapacitor devices. Journal of Materials Science, 2022, 57, 5933-5953. | 1.7 | 8 |
| 2 | Optimization of LiCl concentration on polyaniline composites for symmetric and asymmetric supercapacitor devices. Materials Chemistry and Physics, 2022, 285, 126109. | 2.0 | 1 |
| 3 | Co3S4-CoS/rGO hybrid nanostructure: promising material for high-performance and high-rate capacity supercapacitor. Journal of Solid State Electrochemistry, 2021, 25, 465-477. | 1.2 | 17 |
| 4 | Graphene encapsulated NiS/Ni3S4 mesoporous nanostructure: A superlative high energy supercapacitor device with excellent cycling performance. Electrochimica Acta, 2021, 365, 137367. | 2.6 | 35 |
| 5 | Influence of calcination temperature on the electrochemical performance of Solâ€“gel-derived ZnO/C nanocomposite electrodes. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 1.1 | 5 |
| 6 | Extra-Durable Hybrid Supercapacitor Based on Cobalt Sulfide and Carbon (MWCNT) Matrix Electrodes. Journal of Energy Storage, 2021, 34, 102200. | 3.9 | 16 |
| 7 | Sol-Gel coated WO3 thin films based complementary electrochromic smart windows. Materials Letters, 2021, 296, 129881. | 1.3 | 18 |
| 8 | Nickel bismuth oxide as negative electrode for battery-type asymmetric supercapacitor. Chemical Engineering Journal, 2021, 422, 130058. | 6.6 | 49 |
| 9 | CdS microspheres as promising electrode materials for high performance supercapacitors. Materials Science in Semiconductor Processing, 2020, 105, 104677. | 1.9 | 32 |
| 10 | AgCoO 2 â^'Co 3 O 4 /CMC Cloudy Architecture as High Performance Electrodes for Asymmetric Supercapacitors. ChemElectroChem, 2020, 7, 535-545. | 1.7 | 17 |
| 11 | Copper incorporated nickel sulphide on Ni-foam: Binder-free electrode for high performance supercapacitors. AIP Conference Proceedings, 2020, , . | 0.3 | 1 |
| 12 | Azadirachta indica (Neem) tree bark based activated carbon for electrochemical supercapacitor. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |
| 13 | Derivation of activated carbon from tamarindus indica tree bark for supercapacitor applications. AIP Conference Proceedings, 2019, , . | 0.3 | 1 |
| 14 | One step synthesis of ZrO2 microstructures for electrochemical capacitor applications. AIP Conference Proceedings, 2019, , . | 0.3 | 3 |
| 15 | Neem seed shell derived carbon: KOH activation towards symmetric supercapacitor applications. AIP Conference Proceedings, 2019, , . | 0.3 | 1 |
| 16 | Polyethylene glycol-assisted growth of Ni3S4 closely packed nanosheets on Ni-foam for enhanced supercapacitor device. Journal of Solid State Electrochemistry, 2019, 23, 2937-2950. | 1.2 | 9 |
| 17 | Lithium ferrite (Î±-LiFe<sub>5</sub>O<sub>8</sub>) nanorod based battery-type asymmetric supercapacitor with NiO nanoflakes as the counter electrode. New Journal of Chemistry, 2019, 43, 15375-15388. | 1.4 | 30 |
| 18 | Flaky Structured V2O5: Morphology, Formation Scheme and Supercapactive Performance. Russian Journal of Electrochemistry, 2019, 55, 97-106. | 0.3 | 1 |

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|---|---|---|---|
| 19 | Influence of thiourea concentration on the CuS nanostructures and identification of the most suited electrolyte for high energy density supercapacitor. Ionics, 2019, 25, 4409-4423. | 1.2 | 25 |
| 20 | Surfactant tuned morphology of mesoporous Î²-Co(OH)2/CMC nanoflakes: a prospective candidate for supercapacitors. Journal of Solid State Electrochemistry, 2019, 23, 1325-1338. | 1.2 | 21 |
| 21 | Ordered mesoporous Co3O4/CMC nanoflakes for superior cyclic life and ultra high energy density supercapacitor. Applied Surface Science, 2019, 480, 371-383. | 3.1 | 63 |
| 22 | The influence of Ag incorporation on the electrochemical characteristics of ZnO/C electrodes. CrystEngComm, 2019, 21, 2900-2907. | 1.3 | 0 |
| 23 | Hierarchical Î²-Co(OH)2/CoO nanosheets: an additive-free synthesis approach for supercapattery applications. Ionics, 2019, 25, 2437-2444. | 1.2 | 17 |
| 24 | Mesoporous nickel sulphide nanostructures for enhanced supercapacitor performance. Applied Surface Science, 2019, 480, 186-198. | 3.1 | 58 |
| 25 | Effect of modifier oxides (SrO, Al2O3, ZnO, CdO, PbO and Bi2O3) on the luminescence properties of Er3+ doped telluroborate glasses for laser and optical amplifier applications. Journal of Luminescence, 2019, 207, 534-544. | 1.5 | 42 |
| 26 | Microwave assisted fabrication of l-Arginine capped Î±-Ni(OH)2 microstructures as an electrode material for high performance hybrid supercapacitors. Materials Chemistry and Physics, 2019, 224, 357-368. | 2.0 | 26 |
| 27 | Carboxymethyl cellulose aided fabrication of flaky structured mesoporous Î²-Co(OH)2/C nanocomposite for supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 2107-2117. | 1.1 | 15 |
| 28 | Spongy structured Î±-Ni(OH)2: Facile and rapid synthesis for supercapattery applications. Materials Letters, 2019, 238, 35-37. | 1.3 | 19 |
| 29 | Supercapacitor performance study of lithium chloride doped polyaniline. Applied Surface Science, 2018, 460, 40-47. | 3.1 | 23 |
| 30 | Surfactant free nickel sulphide nanoparticles for high capacitance supercapacitors. AIP Conference Proceedings, 2018, , . | 0.3 | 6 |
| 31 | Green synthesis of ZnO/carbon (ZnO/C) as an electrode material for symmetric supercapacitor devices. Applied Surface Science, 2018, 449, 521-527. | 3.1 | 67 |
| 32 | Effect of ZnO on the spectroscopic properties of Dy3+ doped zinc telluroborate glasses for white light generation. Journal of Non-Crystalline Solids, 2018, 498, 386-394. | 1.5 | 21 |
| 33 | Luminescence and energy transfer studies on Sm 3+ /Tb 3+ codoped telluroborate glasses for WLED applications. Journal of Molecular Structure, 2018, 1151, 266-276. | 1.8 | 69 |
| 34 | V 2 O 5 / nitrogen enriched mesoporous carbon spheres nanocomposite as supercapacitor electrode. Microporous and Mesoporous Materials, 2018, 258, 83-94. | 2.2 | 43 |
| 35 | Ni-Doped SnO<sub>2</sub> Nanoparticles for Sensing and Photocatalysis. ACS Applied Nano Materials, 2018, 1, 5823-5836. | 2.4 | 55 |
| 36 | High performance supercapacitor behavior of hydrothermally synthesized CdTe nanorods. Journal of Materials Science: Materials in Electronics, 2018, 29, 17397-17404. | 1.1 | 25 |

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|---|---|---|---|
| 37 | Fabrication of CeO 2 /PANI composites for high energy density supercapacitors. Materials Research Bulletin, 2018, 106, 357-364. | 2.7 | 53 |
| 38 | Effect of PbO on the B 2 O 3 â€“TeO 2 â€“P 2 O 5 â€“BaOâ€“CdOâ€“Sm 2 O 3 glasses - Structural and optical investigations. Journal of Non-Crystalline Solids, 2017, 461, 35-46. | 1.5 | 35 |
| 39 | Niâ€“CeO<sub>2</sub> spherical nanostructures for magnetic and electrochemical supercapacitor applications. Physical Chemistry Chemical Physics, 2017, 19, 4396-4404. | 1.3 | 82 |
| 40 | High performance supercapacitor and non-enzymatic hydrogen peroxide sensor based on tellurium nanoparticles. Sensing and Bio-Sensing Research, 2017, 13, 40-48. | 2.2 | 30 |
| 41 | Design of additive free 3D floral shaped V<sub>2</sub>O<sub>5</sub>@ Ni foam for high performance supercapacitors. Materials Technology, 2017, 32, 584-590. | 1.5 | 17 |
| 42 | Controlled synthesis of nanostructured molybdenum oxide electrodes for high performance supercapacitor devices. Applied Surface Science, 2017, 416, 461-469. | 3.1 | 79 |
| 43 | Pure and Co doped CeO2 nanostructure electrodes with enhanced electrochemical performance for energy storage applications. Ceramics International, 2017, 43, 10494-10501. | 2.3 | 39 |
| 44 | Structural and luminescence studies of Eu3+: TeO2B2O3AO AF2 (AÂ=ÂPb, Ba, Zn, Cd, Sr) glasses. Journal of Molecular Structure, 2017, 1144, 290-299. | 1.8 | 25 |
| 45 | Cr2O3 nanoparticles: Advanced electrode materials for high performance pseudocapacitors. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 46 | Ag-Incorporated CeO<sub>2</sub> nano cauliflowers for high-performance supercapacitor devices. New Journal of Chemistry, 2017, 41, 10841-10850. | 1.4 | 24 |
| 47 | Enhanced electrochemical behavior of ceria based zirconia electrolytes for intermediate temperature solid oxide fuel cell applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 10980-10992. | 1.1 | 11 |
| 48 | Red light generation through the lead boroâˆ'telluroâˆ'phosphate glasses activated by Eu3+ ions. Journal of Molecular Structure, 2016, 1119, 276-285. | 1.8 | 60 |
| 49 | Sizeâ€“strain distribution analysis of SnO<sub>2</sub> nanoparticles and their multifunctional applications as fiber optic gas sensors, supercapacitors and optical limiters. RSC Advances, 2016, 6, 90559-90570. | 1.7 | 58 |
| 50 | Influence of Modifier Cations on the Spectroscopic Properties of Dy3+ Doped Telluroborate Glasses for White Light Applications. Journal of Fluorescence, 2016, 26, 2281-2294. | 1.3 | 24 |
| 51 | Hexagonal CeO<sub>2</sub> nanostructures: an efficient electrode material for supercapacitors. Dalton Transactions, 2016, 45, 14352-14362. | 1.6 | 99 |
| 52 | Structural and optical investigations on Dy 3+ doped lithium tellurofluoroborate glasses for white light applications. Journal of Luminescence, 2016, 176, 15-24. | 1.5 | 93 |
| 53 | Fabrication of two-dimensional reduced graphene oxide supported V 2 O 5 networks and their application in supercapacitors. Materials Chemistry and Physics, 2016, 170, 266-275. | 2.0 | 83 |
| 54 | Investigations on growth and characterization of glycine admixture sodium molybdate crystals for nonlinear optical applications. Optik, 2016, 127, 1708-1713. | 1.4 | 5 |

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|---|---|---|---|
| 55 | Cubic fluorite phase of samarium doped cerium oxide (CeO2)0.96Sm0.04 for solid oxide fuel cell electrolyte. Journal of Materials Science: Materials in Electronics, 2016, 27, 1566-1573. | 1.1 | 39 |
| 56 | Spectroscopic behaviour of Dy3+ ions in lead telluro-fluoroborate glasses for photonic applications. AIP Conference Proceedings, 2015, , . | 0.3 | 0 |
| 57 | Supercapacitor Behavior of Cerium Oxide Nanoparticles in Neutral Aqueous Electrolytes. Energy & Fuels, 2015, 29, 8246-8253. | 2.5 | 150 |
| 58 | Luminescence Properties and Optical Absorption of X ray-Irradiated KBr: Ce3+, Tb3+ Crystals. Journal of Fluorescence, 2015, 25, 239-246. | 1.3 | 0 |
| 59 | Gold nanoparticles for sensitive detection of hydrogen peroxide: a simple non-enzymatic approach. Journal of Applied Electrochemistry, 2015, 45, 963-971. | 1.5 | 18 |
| 60 | Luminescent Properties of Cerium Doped Potassium Iodide Single Crystals in Response to Î³-irradiation. Journal of Fluorescence, 2015, 25, 641-646. | 1.3 | 4 |
| 61 | Amperometric sensing of hydrogen peroxide using glassy carbon electrode modified with copper nanoparticles. Materials Research Bulletin, 2015, 70, 315-320. | 2.7 | 28 |
| 62 | Improved luminescence intensity and stability of thermal annealed ZnO incorporated Alq3 composite films. Journal of Fluorescence, 2015, 25, 1629-1635. | 1.3 | 11 |
| 63 | High performance supercapacitor based on carbon coated V2O5 nanorods. Journal of Electroanalytical Chemistry, 2015, 758, 111-116. | 1.9 | 62 |
| 64 | Structural and luminescence behavior of Sm3+ ions doped lead boro-telluro-phosphate glasses. Journal of Luminescence, 2015, 159, 207-218. | 1.5 | 93 |
| 65 | Effect of thermal annealing on the structural and optical properties of trisâ€(8â€hydroxyquinoline)aluminum(III) (Alq<sub>3</sub>) films. Luminescence, 2015, 30, 352-357. | 1.5 | 9 |
| 66 | Ag<sub>3</sub>O<sub>4</sub> grafted NiO nanosheets for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 420-427. | 5.2 | 37 |
| 67 | Synthesis and optical properties of ZnO incorporated Tris-(8-hydroxyquinoline)aluminum. Journal of Luminescence, 2014, 153, 188-193. | 1.5 | 16 |
| 68 | Role of annealing duration on the microstructure and electrochemical performance of Î²-V<sub>2</sub>O<sub>5</sub>thin films. Philosophical Magazine, 2014, 94, 946-955. | 0.7 | 6 |
| 69 | Synthesis of mesh-like Fe2O3/C nanocomposite via greener route for high performance supercapacitors. RSC Advances, 2014, 4, 4631-4637. | 1.7 | 64 |
| 70 | Preparation of vinyl polymer stabilized silver nanospheres for electro-analytical determination of H2O2. Sensors and Actuators B: Chemical, 2014, 193, 149-156. | 4.0 | 32 |
| 71 | V<sub>2</sub>O<sub>5</sub>/functionalized MWCNT hybrid nanocomposite: the fabrication and its enhanced supercapacitive performance. RSC Advances, 2014, 4, 37437-37445. | 1.7 | 38 |
| 72 | Enhanced luminescence properties of hybrid Alq 3 /ZnO (organic/inorganic) composite films. Journal of Luminescence, 2014, 156, 1-7. | 1.5 | 18 |

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|---|---|---|---|
| 73 | Nanostructured CuO/reduced graphene oxide composite for hybrid supercapacitors. RSC Advances, 2014, 4, 23485. | 1.7 | 133 |
| 74 | Structural and luminescence studies on Dy3+ doped lead boroâ€“telluro-phosphate glasses. Physica B: Condensed Matter, 2014, 454, 72-81. | 1.3 | 80 |
| 75 | MnO<sub>2</sub> grafted V<sub>2</sub>O<sub>5</sub> nanostructures: formation mechanism, morphology and supercapacitive features. CrystEngComm, 2014, 16, 10711-10720. | 1.3 | 48 |
| 76 | Ag incorporated Mn<sub>3</sub>O<sub>4</sub>/AC nanocomposite based supercapacitor devices with high energy density and power density. Dalton Transactions, 2014, 43, 17528-17538. | 1.6 | 62 |
| 77 | Thermoluminescence and optical studies on Î³-ray irradiated KCl: Tb3+crystals. Radiation Effects and Defects in Solids, 2014, 169, 9-18. | 0.4 | 4 |
| 78 | Electrochemical supercapacitor behaviour of Î±-Ni(OH)2 nanoparticles synthesized via green chemistry route. Journal of Electroanalytical Chemistry, 2014, 727, 53-58. | 1.9 | 33 |
| 79 | Optical, structural, and electrochromic properties of cobalt oxide films prepared via the solâ€“gel route. Materials Science in Semiconductor Processing, 2013, 16, 1410-1415. | 1.9 | 16 |
| 80 | Thickness dependent supercapacitor behaviour of sol-gel spin coated nanostructured vanadium pentoxide thin films. Philosophical Magazine, 2013, 93, 1490-1499. | 0.7 | 11 |
| 81 | Biopolymer-Assisted Synthesis of Î»-MnO<sub>2</sub>Nanoparticles As an Electrode Material for Aqueous Symmetric Supercapacitor Devices. Industrial & Engineering Chemistry Research, 2013, 52, 18262-18268. | 1.8 | 69 |
| 82 | Thermoluminescence, optical absorption, photoluminescence, FT-IR and XRD studies on l-arginine doped orthophosphoric acid. Journal of Luminescence, 2013, 142, 184-188. | 1.5 | 4 |
| 83 | Effect of annealing temperature on the supercapacitor behaviour of Î²-V2O5 thin films. Materials Research Bulletin, 2013, 48, 760-766. | 2.7 | 78 |
| 84 | Nanosheet-Assembled NiO Microstructures for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 10767-10773. | 4.0 | 133 |
| 85 | Supercapacitor Studies on NiO Nanoflakes Synthesized Through a Microwave Route. ACS Applied Materials & Interfaces, 2013, 5, 2188-2196. | 4.0 | 542 |
| 86 | Nanostructured nickel doped Î²-V2O5 thin films for supercapacitor applications. Materials Research Bulletin, 2013, 48, 2578-2582. | 2.7 | 46 |
| 87 | Microstructural, electrical and optical properties of ZnO:Mo thin films with various thickness by spray pyrolysis. Journal of Analytical and Applied Pyrolysis, 2013, 102, 68-75. | 2.6 | 59 |
| 88 | Synthesis of Mn<sub>3</sub>O<sub>4</sub>/Amorphous Carbon Nanoparticles as Electrode Material for High Performance Supercapacitor Applications. Energy & Fuels, 2013, 27, 3508-3515. | 2.5 | 156 |
| 89 | Microwave assisted synthesis of Co3O4 nanoparticles for high-performance supercapacitors. Electrochimica Acta, 2013, 106, 500-505. | 2.6 | 198 |
| 90 | Porous NiO/C Nanocomposites as Electrode Material for Electrochemical Supercapacitors. ACS Sustainable Chemistry and Engineering, 2013, 1, 1110-1118. | 3.2 | 119 |

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| 91 | Interconnected V<sub>2</sub>O<sub>5</sub> Nanoporous Network for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 4484-4490. | 4.0 | 408 |
| 92 | Supercapacitor behaviour of cobalt-doped nickel oxide films. Philosophical Magazine Letters, 2012, 92, 436-441. | 0.5 | 5 |
| 93 | Electrochromic properties of nickel oxide and mixed Co/Ni oxide films prepared via solâ€“gel route. Journal of Non-Crystalline Solids, 2012, 358, 354-359. | 1.5 | 20 |
| 94 | Supercapacitor behavior of Î±-MnMoO4 nanorods on different electrolytes. Materials Research Bulletin, 2012, 47, 3348-3351. | 2.7 | 75 |
| 95 | Luminescence studies on gamma irradiated KCl: Ce3+ crystals. Physica B: Condensed Matter, 2012, 407, 2185-2189. | 1.3 | 16 |
| 96 | Synthesising of ZnO nanopetals for supercapacitor applications. Micro and Nano Letters, 2011, 6, 668. | 0.6 | 40 |
| 97 | Effect of temperature of annealing on optical, structural and electrochromic properties of solâ€“gel dip coated molybdenum oxide films. Applied Surface Science, 2011, 257, 2074-2079. | 3.1 | 69 |
| 98 | Enhanced electrochromic performance of nanoporous NiO films. Materials Science in Semiconductor Processing, 2011, 14, 78-83. | 1.9 | 25 |
| 99 | Optical, structural and electrochromic properties of nickel oxide films produced by solâ€“gel technique. Solar Energy, 2011, 85, 978-984. | 2.9 | 42 |
| 100 | SUPERCAPACITOR BEHAVIOR OF SPRAY DEPOSITED<font>SnO<sub>2</sub></font>THIN FILMS. International Journal of Nanoscience, 2011, 10, 1245-1248. | 0.4 | 7 |
| 101 | Effect of tungsten on the electrochromic behaviour of solâ€“gel dip coated molybdenum oxide thin films. Materials Research Bulletin, 2010, 45, 542-545. | 2.7 | 7 |
| 102 | Enhanced electrochromism in cerium doped molybdenum oxide thin films. Materials Research Bulletin, 2010, 45, 1969-1972. | 2.7 | 12 |
| 103 | Photoluminescence, optical absorption and XRD studies on X-ray irradiated terbium doped KBr crystals. Journal of Luminescence, 2010, 130, 343-346. | 1.5 | 9 |
| 104 | Thermoluminescence and optical studies on X-irradiated terbium-doped potassium bromide crystals. Journal of Luminescence, 2010, 130, 618-622. | 1.5 | 29 |
| 105 | NANOPOROUS <font>NiO</font> BASED ELECTROCHROMIC WINDOW. Functional Materials Letters, 2009, 02, 143-145. | 0.7 | 5 |
| 106 | Structural and optical studies of Eu<sup>3+</sup> ions in alkali borate glasses. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 131-139. | 0.8 | 46 |
| 107 | Preparation and characterization of F doped SnO2 films and electrochromic properties of FTO/NiO films. Current Applied Physics, 2009, 9, 67-72. | 1.1 | 35 |
| 108 | The effect of annealing temperature on the electrochromic properties of nanostructured NiO films. Solar Energy Materials and Solar Cells, 2009, 93, 1195-1201. | 3.0 | 99 |

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| 109 | Enhanced luminescent properties and optical absorption of Î³-irradiated KI: Ce3+, Tb3+ crystals. Journal of Luminescence, 2009, 129, 24-29. | 1.5 | 17 |
| 110 | Nanostructured NiO based all solid state electrochromic device. Journal of Sol-Gel Science and Technology, 2008, 46, 190-194. | 1.1 | 39 |
| 111 | Photoluminescence study of Cupric Telluride thin films. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |
| 112 | EFFECT OF FLUORINE CONTENT ON THE MORPHOLOGICAL, STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF NANOSTRUCTURED SnO2 FILMS. Surface Review and Letters, 2007, 14, 1149-1156. | 0.5 | 11 |
| 113 | Thermoluminescence and other optical studies on RbBr:Tb3+ crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 726-734. | 0.7 | 13 |
| 114 | Luminescence and laser Raman studies on gammaâ€irradiated RbI:Sm<sup>3+</sup> crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 3730-3738. | 0.7 | 5 |
| 115 | Apatites and britholites, are they akin - as probed by Eu3+luminescence?. Journal of Physics Condensed Matter, 2001, 13, 537-547. | 0.7 | 12 |
| 116 | Thermoluminescence and Fluorescence Studies on RbBr:Gd<sup>2+</sup>. Physica Status Solidi (B): Basic Research, 1988, 146, 727-731. | 0.7 | 4 |
| 117 | Thermoluminescence and Other Optical Studies on Î³â€irradiated RbCl: Gd<sup>2+</sup>. Physica Status Solidi (B): Basic Research, 1988, 150, 315-322. | 0.7 | 4 |