

Masanori Ando

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64

papers

1,586

citations

22

h-index

38

g-index

69

ext. papers

1,699

ext. citations

5.6

avg, IF

4.41

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 64 | Optical recognition of CO and H ₂ by use of gas-sensitive Au@Co ₃ O ₄ composite films. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1779-1783 | | 193 |
| 63 | Large third-order optical nonlinearities in transition-metal oxides. <i>Nature</i> , 1995 , 374, 625-627 | 50.4 | 152 |
| 62 | Combined effects of small gold particles on the optical gas sensing by transition metal oxide films. <i>Catalysis Today</i> , 1997 , 36, 135-141 | 5.3 | 84 |
| 61 | Optical CO sensitivity of Au@CuO composite film by use of the plasmon absorption change. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 589-595 | 8.5 | 72 |
| 60 | Highly luminescent CdSe/Cd(x)Zn(1-x)S quantum dots coated with thickness-controlled SiO ₂ shell through silanization. <i>Langmuir</i> , 2011 , 27, 9535-40 | 4 | 70 |
| 59 | Optical hydrogen sensitivity of noble metal@tungsten oxide composite films prepared by sputtering deposition. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 13-17 | 8.5 | 65 |
| 58 | Recent advances in optochemical sensors for the detection of H ₂ , O ₂ , O ₃ , CO, CO ₂ and H ₂ O in air. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 937-948 | 14.6 | 57 |
| 57 | Humidity-sensitive optical absorption of Co ₃ O ₄ film. <i>Sensors and Actuators B: Chemical</i> , 1996 , 32, 157-160 | 6.5 | 55 |
| 56 | Highly Luminescent CdSe/CdxZn1-xS Quantum Dots with Narrow Spectrum and Widely Tunable Wavelength. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14455-14460 | 3.8 | 53 |
| 55 | Highly Luminescent Water-Soluble InP/ZnS Nanocrystals Prepared via Reactive Phase Transfer and Photochemical Processing. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20190-20199 | 3.8 | 51 |
| 54 | From metal-organic framework to intrinsically fluorescent carbon nanodots. <i>Chemistry - A European Journal</i> , 2014 , 20, 8279-82 | 4.8 | 50 |
| 53 | Formation of Luminescent CdTe/Silica Nanoparticles through an Inverse Microemulsion Technique. <i>Chemistry Letters</i> , 2004 , 33, 434-435 | 1.7 | 45 |
| 52 | Encapsulation of emitting CdTe QDs within silica beads to retain initial photoluminescence efficiency. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 420-7 | 9.3 | 43 |
| 51 | Optical CO detection by use of CuO/Au composite films. <i>Sensors and Actuators B: Chemical</i> , 1995 , 25, 851-853 | 8.5 | 43 |
| 50 | Enhancement in the optical CO sensitivity of NiO film by the deposition of ultrafine gold particles. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 1011 | | 36 |
| 49 | Synthesis of Cd-free water-soluble ZnSe(1-x)Te(x) nanocrystals with high luminescence in the blue region. <i>Journal of Colloid and Interface Science</i> , 2008 , 321, 468-76 | 9.3 | 35 |
| 48 | Silica encapsulation of highly luminescent hydrophobic quantum dots by two-step microemulsion method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 395, 24-31 | 5.1 | 27 |

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| 47 | Morphology- and Color-Tunable Bright Fibers with High Concentration of CdTe Nanocrystals Assembled through Sol-Gel Reaction. <i>Advanced Materials</i> , 2009 , 21, 4016-4019 | 24 | 27 |
| 46 | Formation of two types of highly luminescent SiO ₂ beads impregnated with multiple CdTe QDs. <i>New Journal of Chemistry</i> , 2009 , 33, 561-567 | 3.6 | 27 |
| 45 | Highly luminescent water-soluble ZnSe nanocrystals and their incorporation in a glass matrix. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 294, 33-39 | 5.1 | 27 |
| 44 | Third-order nonlinear optical responses of nanoparticulate Co ₃ O ₄ films. <i>Thin Solid Films</i> , 2004 , 446, 271-276 | 2.6 | 26 |
| 43 | Optical ozone-sensing properties of poly(2-chloroaniline), poly(N-methylaniline) and polyaniline films. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 528-534 | 8.5 | 24 |
| 42 | Enhancing effect of gold deposition in the optical detection of reducing gases in air by metal oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 1993 , 14, 545-546 | 8.5 | 22 |
| 41 | Electrochromic properties of spin-coated nickel oxide films. <i>Solid State Ionics</i> , 1998 , 113-115, 443-447 | 3.3 | 21 |
| 40 | Large optical CO sensitivity of NO ₂ -pretreated Au/NiO composite films. <i>Sensors and Actuators B: Chemical</i> , 1996 , 36, 513-516 | 8.5 | 18 |
| 39 | Hydrazide and hydrazine reagents as reactive matrices for MALDI-MS to detect gaseous aldehydes. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 742-9 | 2.2 | 17 |
| 38 | Various Au nanoparticle organizations fabricated through SiO ₂ monomer induced self-assembly. <i>Langmuir</i> , 2011 , 27, 895-901 | 4 | 17 |
| 37 | Optical humidity sensitivity of plasma-oxidized nickel oxide films. <i>Solid State Ionics</i> , 1999 , 121, 307-311 | 3.3 | 15 |
| 36 | Encapsulation of Multiple QDs into SiO ₂ Beads by Reflux without Degrading Initial Photoluminescence Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20962-20967 | 3.8 | 14 |
| 35 | Optical ozone detection by use of polyaniline film. <i>Solid State Ionics</i> , 2002 , 152-153, 819-822 | 3.3 | 14 |
| 34 | Preparation of SiO ₂ beads with highly luminescent and magnetic nanocrystals via a modified reverse micelle process. <i>New Journal of Chemistry</i> , 2009 , 33, 1457 | 3.6 | 13 |
| 33 | Facile Preparation of Highly Luminescent InP Nanocrystals by a Solvothermal Route. <i>Chemistry Letters</i> , 2008 , 37, 856-857 | 1.7 | 13 |
| 32 | Synthesis and photoluminescence of bright water-soluble CdSe/ZnS quantum dots overcoated by hybrid organic shell. <i>Materials Letters</i> , 2011 , 65, 3146-3149 | 3.3 | 11 |
| 31 | Highly luminescent SiO ₂ beads with multiple QDs: Preparation conditions and size distributions. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 455-60 | 9.3 | 11 |
| 30 | Blue-emitting Type-II Semiconductor Nanocrystals with High Efficiency Prepared by Aqueous Method. <i>Chemistry Letters</i> , 2007 , 36, 438-439 | 1.7 | 10 |

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| 29 | Development of Technologies for Sensing Ozone in Ambient Air. <i>Analytical Sciences</i> , 2018 , 34, 263-271 | 1.7 | 9 |
| 28 | Au/SiO ₂ /QD core/shell/shell nanostructures with plasmonic-enhanced photoluminescence. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1 | 2.3 | 9 |
| 27 | Sensing of ozone based on its quenching effect on the photoluminescence of CdSe-based core-shell quantum dots. <i>Mikrochimica Acta</i> , 2016 , 183, 3019-3024 | 5.8 | 8 |
| 26 | Optical and electrical H ₂ - and NO ₂ -sensing properties of Au/In _x O _y /N _z /films. <i>IEEE Sensors Journal</i> , 2004 , 4, 232-236 | 4 | 8 |
| 25 | 2-Hydrazinoquinoline: a reactive matrix for matrix-assisted laser desorption/ionization mass spectrometry to detect gaseous carbonyl compounds. <i>European Journal of Mass Spectrometry</i> , 2016 , 22, 83-90 | 1.1 | 8 |
| 24 | Cytotoxicity of CdSe-based quantum dots incorporated in glass nanoparticles evaluated using human keratinocyte HaCaT cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016 , 80, 210-3 | 2.1 | 7 |
| 23 | Controlled self-assembly of hydrophobic quantum dots through silanization. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 9-15 | 9.3 | 7 |
| 22 | CdSe/Cd _{1-x} Zn _x S core/shell quantum dots with tunable emission: growth and morphology evolution. <i>Journal of Materials Science</i> , 2013 , 48, 651-658 | 4.3 | 6 |
| 21 | Facile synthesis of highly luminescent CdSe/Cd _x Zn _{1-x} S quantum dots with widely tunable emission spectra. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 390, 207-211 | 5.1 | 6 |
| 20 | Hybrid SiO ₂ -coated nanocrystal-based heterostructures: Assembly, morphology transition, and photoluminescence at room temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 384, 289-296 | 5.1 | 5 |
| 19 | Silica-coated CdTe Quantum Dots of Unchanged Size with Intense Photoluminescence at Various Wavelengths. <i>Physics Procedia</i> , 2010 , 3, 1553-1555 | | 5 |
| 18 | Effect of UV light irradiation on the morphology of pyrolyzed Co ₃ O ₄ films. <i>Solid State Ionics</i> , 2000 , 136-137, 1291-1293 | 3.3 | 5 |
| 17 | ?????????????????. <i>Electrochemistry</i> , 2001 , 69, 872-875 | 1.2 | 5 |
| 16 | Reversible photoluminescence sensing of gaseous alkylamines using CdSe-based quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 1074-1079 | 8.5 | 4 |
| 15 | Electroluminescence of Hybrid Self-Organised Fibres Incorporating CdTe Quantum Dots. <i>Australian Journal of Chemistry</i> , 2012 , 65, 1257 | 1.2 | 4 |
| 14 | Multiple hydrophobic QDs assembled in SiO ₂ particles using silane coupling agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 397, 92-98 | 5.1 | 4 |
| 13 | Blue-emitting small silica particles incorporating ZnSe-based nanocrystals prepared by reverse micelle method. <i>Journal of Biomedicine and Biotechnology</i> , 2007 , 2007, 52971 | | 4 |
| 12 | Photoluminescent Ozone Sensor with Enhanced Sensitivity by Using CdSe/ZnS Quantum Dots Modified with Gold and Platinum. <i>Analytical Sciences</i> , 2020 , 36, 989-995 | 1.7 | 4 |

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| 11 | Efficient NIR-to-Visible Upconversion of Surface-Modified PbS Quantum Dots for Photovoltaic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9680-9688 | 5.6 | 4 |
| 10 | Aqueous Preparation of Highly Luminescent CdSe/ZnS Nanocrystals through Photochemical Processing. <i>Chemistry Letters</i> , 2011 , 40, 258-260 | 1.7 | 3 |
| 9 | Electroluminescence of Ti- and Ca-doped YAlO ₃ crystals in the visible region. <i>Materials Letters</i> , 2005 , 59, 3941-3944 | 3.3 | 3 |
| 8 | Nonlinear Optical Responses of Spin-Coated Vanadium Oxide Films. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 637, E5.19.1 | | 3 |
| 7 | Comparison of Brightness of Emitting Semiconductor Nanocrystals with That of Rare-Earth Phosphor. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 7545-7548 | 1.4 | 2 |
| 6 | Light wavelengths of LEDs to improve the color discrimination in Ishihara test and Farnsworth Panel D-15 test for deuterans. <i>Color Research and Application</i> , 2017 , 42, 424-430 | 1.3 | 1 |
| 5 | Reversible sensing of nitrogen dioxide using photoluminescent CdSe/ZnS quantum dots and enhanced response by combination with noble metals. <i>Journal of the Ceramic Society of Japan</i> , 2022 , 130, 180-186 | 1 | 1 |
| 4 | Near-infrared-to-visible upconversion from 980 nm excitation band by binary solid of PbS quantum dot with directly attached emitter. <i>Journal of Materials Chemistry C</i> , | 7.1 | 0 |
| 3 | Development of Bright Phosphors Using Glasses Incorporating Semiconductor Nanoparticles 2018 , 597-600 | | |
| 2 | Photoluminescence Properties and Zeta Potential of Water-Dispersible CdTe Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 789, 322 | | |
| 1 | Development of bright phosphors using glasses incorporating semiconductor nanoparticles 2012 , 558-561 | | |