

Available online at www.sciencedirect.com



Photochemistry
Photobiology
A:Chemistry

Journal of Photochemistry and Photobiology A: Chemistry 166 (2004) 165-167

www.elsevier.com/locate/jphotochem

Subject Index of Volume 166

Ablation

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Allyl iodide

Coherent control of interference between one- and two-photon dissociation of allyl iodide, 3

ArF excimer laser

Low-temperature growth of La_{0.8}Sr_{0.2}MnO₃ thin films on LaAlO₃ and SrTiO₃ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

A-S-D triads

Scanning Maxwell stress microscopy of photo-induced charge separation in A-S-D triad monolayers, 45

Bisbenzothienylethene

Reversible control of properties of materials by thermally irreversible photochromism, 9

Bolometer

Low-temperature growth of $La_{0.8}Sr_{0.2}MnO_3$ thin films on $LaAlO_3$ and $SrTiO_3$ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

Boronic acid function

Sensitization of TiO₂ with ruthenium complexes containing boronic acid functions, 91

C12A7

Photonic materials utilizing naturally occurring nanostructures, 141 Carrier confinement

Photonic materials utilizing naturally occurring nanostructures, 141 Cholesteric liquid crystals

Reversible control of properties of materials by thermally irreversible photochromism, 9

Conducting polymer dyes

Polythiophene-sensitized TiO₂ solar cells, 75

Control of interference

Coherent control of interference between one- and two-photon dissociation of allyl iodide, 3

Density functional theory

Highly efficient photosensitization of TiO₂ with diimine(diketonato)ruthenium(II) complexes, 81

Diastereoselectivity

Reversible control of properties of materials by thermally irreversible photochromism, 9

β-Diketonate

Highly efficient photosensitization of TiO₂ with diimine(diketonato)ruthenium(II) complexes, 81

Dye sensitization

Dawn of the evolution of photoelectrochemistry, 63

Dye-sensitized photocatalysts

Dye-sensitized photocatalysts for efficient hydrogen production from aqueous I⁻ solution under visible light irradiation, 115

Dye-sensitized solar cell

Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film, 69

Dye-sensitized solar cells

Polythiophene-sensitized TiO2 solar cells, 75

Elastomer

Nanopatterning with conformable phase masks, 149

Electric field effect

Electric field effect on electron transfer between donor and acceptor in polymer matrix, 33

Electron injection

Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film, 69

Electron transfe

Quantum dynamical simulations of ultrafast photoinduced electrontransfer processes, 19

Porphyrin and fullerene-based photovoltaic devices, 57

Electronic conductor

Photonic materials utilizing naturally occurring nanostructures, 141 Epitaxy

Low-temperature growth of La_{0.8}Sr_{0.2}MnO₃ thin films on LaAlO₃ and SrTiO₃ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

Excitation migration

Electric field effect on electron transfer between donor and acceptor in polymer matrix, 33

Excitor

Photonic materials utilizing naturally occurring nanostructures, 141

F+ Center

Photonic materials utilizing naturally occurring nanostructures, 141 Fluorescence quenching

Electric field effect on electron transfer between donor and acceptor in polymer matrix, 33

Fulgide

Reversible control of properties of materials by thermally irreversible photochromism, 9

Fullerene

Porphyrin and fullerene-based photovoltaic devices, 57

Homogenizer

Fabrication of beam homogenizers in quartz by laser micromachining,

Hydrogen

A nano-modified $\mathrm{Si/TiO_2}$ composite electrode for efficient solar water splitting, 107

Hydrogen production

Dye-sensitized photocatalysts for efficient hydrogen production from aqueous I^- solution under visible light irradiation, 115

INDO/S

Highly efficient photosensitization of ${\rm TiO_2}$ with diimine(diketonato)ruthenium(II) complexes, 81

LaCuOS

Photonic materials utilizing naturally occurring nanostructures, 141

166 Subject Index

LaCuOSe

Photonic materials utilizing naturally occurring nanostructures, 141 Langmuir-Blodgett films

Scanning Maxwell stress microscopy of photo-induced charge separation in A-S-D triad monolayers, 45

Laser ablation

Fabrication of beam homogenizers in quartz by laser micromachining,

Low-temperature growth

Low-temperature growth of $La_{0.8}Sr_{0.2}MnO_3$ thin films on $LaAlO_3$ and $SrTiO_3$ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

LSMO

Low-temperature growth of $La_{0.8}Sr_{0.2}MnO_3$ thin films on $LaAlO_3$ and $SrTiO_3$ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

Micro-bubble

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Microlens

Fabrication of beam homogenizers in quartz by laser micromachining, 135

Microscope

Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film, 69

MOD

Low-temperature growth of $La_{0.8}Sr_{0.2}MnO_3$ thin films on LaAlO₃ and SrTiO₃ substrates by an excimer laser metal organic deposition (ELMOD) process, 123

Nanocrystalline TiO₂

Polythiophene-sensitized TiO₂ solar cells, 75

Nanofabrication

Nanopatterning with conformable phase masks, 149

Nano-particles

A nano-modified Si/TiO_2 composite electrode for efficient solar water splitting, 107

Nanosecond-pulsed UV laser

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Nanostructure

Photonic materials utilizing naturally occurring nanostructures, 141 Near field optics

Nanopatterning with conformable phase masks, 149

Optical communication

Organic light-emitting materials and devices for optical communication technology, 155

Organic ionic dyes

Organic light-emitting materials and devices for optical communication technology, 155

Organic IR light-emitting materials

Organic light-emitting materials and devices for optical communication technology, 155

Organic rare-earth complex

Organic light-emitting materials and devices for optical communication technology, 155

Osmium sensitizers

Efficient osmium sensitizers containing 2,2'-bipyridine-4,4'-bisphosphonic acid ligand, 99

Phase mask

Nanopatterning with conformable phase masks, 149

Phosphonic acid functions

Efficient osmium sensitizers containing 2,2'-bipyridine-4,4'-bisphosphonic acid ligand, 99

Photocatalysis

A nano-modified Si/TiO₂ composite electrode for efficient solar water splitting, 107

Photochromism

Reversible control of properties of materials by thermally irreversible photochromism, 9

Photoelectrochemistry

Dawn of the evolution of photoelectrochemistry, 63

A nano-modified Si/TiO₂ composite electrode for efficient solar water splitting, 107

Photoelectrode

Dawn of the evolution of photoelectrochemistry, 63

Photo-induced charge separation

Scanning Maxwell stress microscopy of photo-induced charge separation in A-S-D triad monolayers, 45

Photoinduced electron transfer

Electric field effect on electron transfer between donor and acceptor in polymer matrix, 33

Photolithography

Nanopatterning with conformable phase masks, 149

Photon dissociation

Coherent control of interference between one- and two-photon dissociation of allyl iodide, 3

Photosensitizers

Highly efficient photosensitization of TiO₂ with diimine(diketonato)ruthenium(II) complexes, 81

Photovoltaic devices

Porphyrin and fullerene-based photovoltaic devices, 57

Polymer microparticles

Organic light-emitting materials and devices for optical communication technology, 155

Polymer optical waveguides

Organic light-emitting materials and devices for optical communication technology, 155

Porphyrin

Porphyrin and fullerene-based photovoltaic devices, 57

Quart

Fabrication of beam homogenizers in quartz by laser micromachining, 135

Redfield theory

Quantum dynamical simulations of ultrafast photoinduced electrontransfer processes, 19

Ruthenium complexes

Sensitization of TiO₂ with ruthenium complexes containing boronic acid functions, 91

Ruthenium(II) complexes

Highly efficient photosensitization of TiO₂ with diimine(diketonato)ruthenium(II) complexes, 81

Scanning Maxwell stress microscopy

Scanning Maxwell stress microscopy of photo-induced charge separation in A-S-D triad monolayers, 45

Self-assembled monolayers

Porphyrin and fullerene-based photovoltaic devices, 57

Shockwave

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Silica glass

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Soft lithography

Nanopatterning with conformable phase masks, 149

Solar cells

Highly efficient photosensitization of TiO₂ with diimine(diketonato)ruthenium(II) complexes, 81 Subject Index 167

Supramolecular chemistry

Reversible control of properties of materials by thermally irreversible photochromism, 9

Surface micro-structuring

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Surface modification

A nano-modified Si/TiO_2 composite electrode for efficient solar water splitting, 107

Surface potentials

Scanning Maxwell stress microscopy of photo-induced charge separation in A-S-D triad monolayers, 45

Thin film

A nano-modified $\mathrm{Si/TiO_2}$ composite electrode for efficient solar water splitting, 107

Time-resolved shadowgraph microscopy

Micron- and submicron-sized surface patterning of silica glass by LIBWE method, 129

Titanium dioxide

Sensitization of ${\rm TiO_2}$ with ruthenium complexes containing boronic acid functions, 91

Efficient osmium sensitizers containing 2,2'-bipyridine-4,4'-bisphosphonic acid ligand, 99

Transient absorption

Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film, 69

Visible light irradiation

Dye-sensitized photocatalysts for efficient hydrogen production from aqueous I⁻ solution under visible light irradiation, 115

Wave-packet dynamics

Quantum dynamical simulations of ultrafast photoinduced electrontransfer processes, 19

Wet etching

Fabrication of beam homogenizers in quartz by laser micromachining, 135