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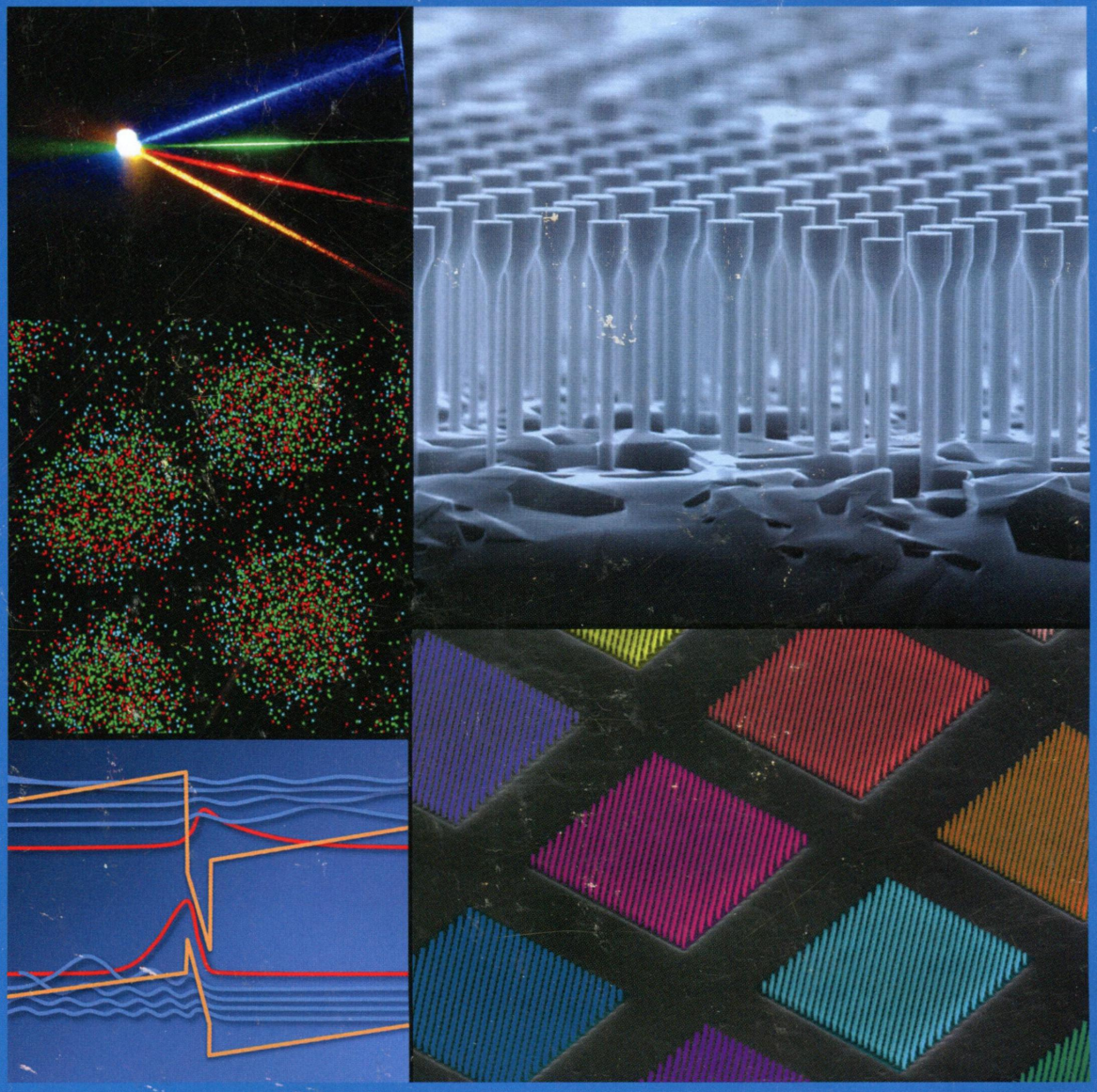

Solid-State Lighting Research: Exploring Energy Conversion in Tailored Photonic Nanostructures (see page 13330)

ENERGY CONVERSION AND STORAGE, OPTICAL AND ELECTRONIC DEVICES, INTERFACES, NANOMATERIALS, AND HARD MATTER

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ON THE COVER: Solid-state lighting research: exploring energy conversion in tailored photonic nanostructures. Research into emission phenomena that could lead to next-generation solid-state lighting. Images, clockwise from the upper left: emission from blue, green, red and amber lasers combined to produce white light (photo credit: Randy Montoya); array of GaN/InGaN nanowire light-emitting diode (LED) structures; false-color scanning electron microscope image of 10 μm · 10 μm arrays of nanowire photonic-crystal laser structures, each with a different emission wavelength determined by nanowire diameter and spacing; electron and hole wave functions in a GaN/InGaN LED quantum-well structure; and elemental composition of CdSe/ZeSe quantum dots determined by transmission electron microscope energy-dispersive spectroscopy (Cd red, Se green, Zn blue). Cover art created by George Wang and Jeremy Wright. See page 13330.

Editorial

Feature Article

Articles

Energy Conversion and Storage; Energy and Charge Transport

Surfaces, Interfaces, Porous Materials, and Catalysis

Plasmonics, Optical Materials, and Hard Matter

Physical Processes in Nanomaterials and Nanostructures

Additions and Corrections

(S) Supporting Information available via online article (W) Web Enhanced Features available via online article