

Recent patent applications in biological imaging

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
US 20100217023	New monomeric amidophosphine-metal complexes useful for, e.g., biological imaging or photochemical catalysis. The complexes are cost effective, have excellent emission and luminescence properties, longer lifetimes and good quantum efficiency.	Dempsey J, Miller AJ, Peters JC	Dempsey J, Miller AJ, Peters JC	7/28/2006	8/26/2010
US 20100208270	An interferometric detection metrology system that has a fiber optic splitter including an arm operably coupled to a broadband source and another arm directing light onto a sample; for use in, e.g., biological imaging.	Devaraj B, Kulkarni MD, Ma S	Devaraj B, Kulkarni MD, Ma S	2/19/2009	8/19/2010
US 7778296	An optical microcavity arrangement, e.g., a photonic crystal cavity arrangement with a colloid material layer comprising emitters that couple photon emission to cavities in a predetermined wavelength range; for use in a laser device.	Stanford University (Palo Alto, CA, USA)	Englund DR, Fushman I, Vuckovic J	5/12/2006	8/17/2010
WO 2010045421	A photoacoustic imaging method for prostate imaging involves focusing waves through the acoustic system that comprises the multicomponent acoustic lens, and imaging the focused waves in two dimensions.	University of Rochester (Rochester, NY, USA), Rochester Institute of Technology (Rochester, NY, USA)	Dogra VS, Knox WH, Rao NAHK	10/15/2008	4/22/2010, 7/29/2010
JP 4507132	An imaging device, e.g., digital camera, that has an auto focus mechanism that matches focus of the digital camera using light emitted by a luminous dummy object; for imaging in the detection and analysis of biological objects.	Liponics (Tokyo)	Ogasawara M, Tsuruta K	6/19/2009	7/21/2010
WO 2010060618	A new monomeric variant of the red fluorescent protein eqFP611 having an altered amino sequence featuring specific amino acid exchanges; useful as a labeling substance in biological and/or medical imaging.	University of Ulm (Ulm, Germany)	Kredel S, Nienhaus GU, Oswald F, Wiedenmann J	11/26/2008	6/3/2010
US 20100123155	A formulation for a light-emitting device, comprising a population of semiconductor nanoparticles incorporated into discrete microbeads having an optically transparent medium, where the medium is embedded in a host light-emitting diode encapsulation medium.	Nanoco Technologies (Manchester, UK)	Harris J, Pickett N	11/19/2008	5/20/2010
CN 101706617	A filter with acoustic-optic deflectors placed in a front focal point of a lens and a back focal length of another lens, respectively, and a liquid crystal space light modulator whose phase is obtained by specific formula; for use in a micro-second laser biological imaging field, light storage field and a micro-machining field.	Shenzen Advanced Technology Research Institute (Shenzhen, China)	Li D, Zhang C	11/18/2009	5/12/2010
WO 2010042948	A metal-organic framework building block comprising a tetratopic carboxylic acid and a metal, where the block is robust, noncatenated, 3-dimensional, and permanently microporous; for gas adsorption separation (e.g., carbon dioxide, hydrogen, nitrogen and methane from the gas mixture) and also for catalysis, gas storage, sensing, biological imaging and drug delivery.	Northwestern University (Evanston, IL, USA), Farha OK, Hupp JT	Farha OK, Hupp JT	10/10/2008	4/15/2010
US 20100094134	A medical imaging method for diagnosing, e.g., tumors in breast, involving scanning a tissue volume including a biological entity to quantitatively reconstruct the functional parameters of the biological entity from structural parameters.	University of Connecticut (Farmington, CT, USA)	Gamelin J, Zhu Q	10/14/2008	4/15/2010
WO 2010005550	A caged semiconductor nanocrystal, that is, quantum dot, comprising semiconductor nanocrystal and chemical moiety bound to or associated with the semiconductor nanocrystal; for use as a super resolution probe used in the detection of detectable substances in organic or biological materials.	Regents of the University of California (Oakland, CA, USA)	Cohen B	7/7/2008	1/14/2010

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