

物理学科

氏名	所属	職名	取得学位	専門分野	主な論文・著作・業績
佐藤 英一	物理学科	教授	博士（工学）	放射線科学	<p>①Sato, E., Kosuge, Y., Yamanome, H., Mikata, A., Miura, T., Oda, Y., Ishii, T., Hagiwara, O., Matsukiyo, H., Watanabe, M., Kusachi, S.: Investigation of dual-energy X-ray photon counting using a cadmium telluride detector with dual-energy selection electronics/ Rad. Phys. Chem. 130: 385-390 (2017).</p> <p>②Sato, E., Hagiwara, O., Matsukiyo, H., Watanabe, M., Kusachi, S., Metoki, T., Sato, Y., Oda, Y., Sagae, M., Yamaguchi, S., Ehara, S.: Cancerous-region enhancement utilizing gadolinium-oxide nanoparticles and 7.0-T magnetic resonance imaging/ Med. Imag. Inform. Sci. 33: 1-6 (2016).</p> <p>③Sato, E., Yamaguchi, S., Oda, Y., Sato, Y., Sagae, M., Hagiwara, O., Matsukiyo, H., Watanabe, M., Kusachi, S., Ehara, S.: Zero-dark-counting X-ray-spectrum measurement using a cerium-doped yttrium aluminum perovskite crystal and a multipixel photon counter with changes in the pixel number/ Med. Imag. Inform. Sci., 32: 15-18 (2015)</p> <p>④Kami, S., Sato, E., Kogita, H., Numahata, W., Hamaya, T., Nihei, S., Arakawa, Y., Oda, Y., Kodama, H., Hagiwara, O., Matsukiyo, H., Osawa, A., Enomoto, T., Watanabe, M., Kusachi, S., Sato, S., Ogawa, A.: Zero-dark-counting X-ray photon detection using a YAP(Ge)-MPPC detector and its application to computed tomography using gadolinium contrast media/ Rad. Phys. Chem. 100: 1-7 (2014).</p> <p>⑤Arakawa, Y., Sato, E., Kogita, H., Hamaya, T., Nihei, S., Numahata, W., Kami, S., Oda, Y., Hagiwara, O., Matsukiyo, H., Osawa, A., Enomoto, T., Watanabe, M., Kusachi, S., Sato, S., Ogawa, A.: Investigation of X-ray photon-counting using ceramic-substrate silicon diode and its application to gadolinium imaging/ Jpn. J. Appl. Phys. 53: 072201-1-5 (2014).</p>
小松 真	物理学科	講師	博士（工学）	人間医工学・電気電子工学・流体力学	<p>①Makoto Komatsu, Eiichi Sato : Dissection of polyacrylamide gel with water jet driven by spark discharge, Proc. 49th JSMBE, PS1-3-3 (2010)</p> <p>②特許2003-111766「名称：噴流生成装置」</p> <p>③小松真, 佐藤英一 : Penetration into gel and dissection along soft material of water jet generated by interaction between suctioned water and shock wave, 50th JSMBE, 東京電機大学 神田キャンパス 2011年4月29日～5月1日</p> <p>④Makoto Komatsu, Eiichi Sato : Controllability of water jet driven by underwater spark with adjusting density of electrolysis solution, Proc. 51th JSMBE, P2-06-5 (2 pages of electric book, 2012)</p> <p>⑤小松真 : 水噴流駆動時のワイヤー対向放電電極の劣化/ 平成27年電気学会全国大会講演論文集, 第3分冊, 10, 東京都市大学 世田谷キャンパス, 2015.</p>

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氏名	所属	職名	取得学位	専門分野	主な論文・著作・業績
小田 泰行	物理学科	助教	博士（工学）	放射線科学、 メディア情報学	<p>①Oda, Y., Sato, E., Abudurexiti, A., Hagiwara, O., Osawa, A., Matsukiyo, H., Enomoto, T., Watanabe, M., Kusachi, S., Sugimura, S., Endo, H., Sato, S. and Ogawa, A., Onagawa, J.: Mcps-range photon-counting X-ray computed tomography system utilizing an oscillating linear-YAP(Ce) photon detector / Nucl. Instr. Meth. A, 643: 69-74 (2011)</p> <p>②Oda, Y., Sato, E., Sagae, M., Hagiwara, O., Matsukiyo, H., Osawa, A., Enomoto, T., Watanabe, M., Kusachi, S., Sato, S. and Ogawa, A.: X-ray detection using a ceramic-substrate silicon X-ray diode and its application to computed tomography using gadolinium media / Med. Imag. Inform. Sci. 29: 70-75 (2013)</p> <p>③Yanbe, Y., Sato, E., Chiba, H., Maeda, T., Matsushita, R., Oda, Y., Hagiwara, O., Matsukiyo, H., Osawa, A., Enomoto, T., Watanabe, M., Kusachi, S., Sato, S. and Ogawa, A.: High-sensitivity high-speed X-ray fluorescence scanning cadmium telluride detector for deep-portion cancer diagnosis utilizing tungsten-Kα-excited gadolinium mapping / Jpn. J. Appl. Phys. 52: 092201-1-4 (2013)</p> <p>④Kodama, H., Watanabe, M., Sato, E., Oda, Y., Hagiwara, O., Matsukiyo, H., Osawa, A., Enomoto, T., Kusachi, S., Sato, S. and Ogawa, A.: X-ray photon counting using 100 MHz ready-made silicon P-intrinsic-N X-ray diode and its application to energy-dispersive computed tomography / Jpn. J. Appl. Phys. 52: 072202-1-6 (2013)</p> <p>⑤Yamaguchi, S., Sato, E., Oda, Y., Nakamura, R., Oikawa, H., Yabuushi, T., Ariga, H. and Ehara, S.: Zero-dark-counting high-speed X-ray photon detection using a cerium-doped yttrium aluminum perovskite crystal and a small photomultiplier tube and its application to gadolinium imaging / Jpn. J. Appl. Phys. 53: 040304-1-4 (2014)</p>
寒河江 康朗	物理学科	助教	修士	放射線科学、 X線機器工学	<p>①Sato, E., Sagae, M., Enomoto, T., Ogawa, A., Sato, S.: Energy-discriminating K-edge x-ray computed tomography system/ Ann. Rep. Iwate Med. Univ. Center Lib. Arts Sci. 43: 9-15 (2008)</p> <p>②Sato, E., Sagae, M., Osawa, A., Matsukiyo, H., Enomoto, T., Watanabe, M., Imamiya, M., Kemuyama, N., Takahashi, K., Sato, S., Ogawa, A., Onagawa, J.: Single-energy embossed radiography utilizing a flat panel detector/ Ann. Rep. Iwate Med. Univ. Center Lib. Arts Sci. 44: 1-7 (2009)</p> <p>③寒河江康朗, 佐藤英一, 小田泰行, 佐藤公悦, 江原茂: 家庭用ガイガーカウンターの試作/ 第103回日本医学物理学会学術大会, 4月13日, 横浜, 2012.</p>