

| Author Full Names   | Article Title   | Times Cited | Publication Year | Volume | Issue | Start Page | End Page | DOI                        |
|---|---|-------------|------------------|--------|-------|------------|----------|----------------------------|
| Fujita, Hiroshi   | AI-based computer-aided diagnosis (AI-CAD): the latest review to read first   | 55          | 2020             | 13     | 1     | 6          | 19       | 10.1007/s12194-019-00552-4 |
| Sakai, Ayaka; Onishi, Yuya; Matsui, Misaki; Adachi, Hidetoshi; Teramoto, Atsushi; Saito, Kuniaki; Fujita, Hiroshi   | A method for the automated classification of benign and malignant masses on digital breast tomosynthesis images using machine learning and radiomic features        | 15          | 2020             | 13     | 1     | 27         | 36       | 10.1007/s12194-019-00543-5 |
| Inaba, Yohei; Chida, Koichi; Murabayashi, Yuuki; Endo, Mime; Otomo, Kazuki; Zuguchi, Masayuki   | An initial investigation of a wireless patient radiation dosimeter for use in interventional radiology  | 11          | 2020             | 13     | 3     | 321        | 326      | 10.1007/s12194-020-00575-2 |
| Onishi, Yuya; Teramoto, Atsushi; Tsujimoto, Masakazu; Tsukamoto, Tetsuya; Saito, Kuniaki; Toyama, Hiroshi; Imaizumi, Kazuyoshi; Fujita, Hiroshi   | Investigation of pulmonary nodule classification using multi-scale residual network enhanced with 3DGAN-synthesized volumes   | 8           | 2020             | 13     | 2     | 160        | 169      | 10.1007/s12194-020-00564-5 |
| Ieko, Yoshiro; Kadoya, Noriyuki; Kanai, Takayuki; Nakajima, Yujiro; Arai, Kazuhiro; Kato, Takahiro; Ito, Kengo; Miyasaka, Yuya; Takeda, Ken; Iwai, Takeo; Nemoto, Kenji; Jingu, Keiichi       | The impact of 4DCT-ventilation imaging-guided proton therapy on stereotactic body radiotherapy for lung cancer  | 5           | 2020             | 13     | 3     | 230        | 237      | 10.1007/s12194-020-00572-5 |
| Monzen, Hajime; Tamura, Mikoto; Ueda, Yoshihiro; Fukunaga, Jun-ichi; Kamima, Tatsuya; Muraki, Yuta; Kubo, Kazuki; Nakamatsu, Kiyoshi  | Dosimetric evaluation with knowledge-based planning created at different periods in volumetric-modulated arc therapy for prostate cancer: a multi-institution study | 4           | 2020             | 13     | 4     | 327        | 335      | 10.1007/s12194-020-00585-0 |
| Rana, Suresh; Rosenfeld, Anatoly B.   | Parametrization of in-air spot size as a function of energy and air gap for the ProteusPLUS pencil beam scanning proton therapy system                              | 4           | 2020             | 13     | 4     | 392        | 397      | 10.1007/s12194-020-00589-w |
| Kanno, Iwao; Takahashi, Miwako; Yamaya, Taiga   | Michel M. Ter-Pogossian (1925-1996): a pioneer of positron emission tomography weighted in fast imaging and Oxygen-15 application                                   | 3           | 2020             | 13     | 1     | 1          | 5        | 10.1007/s12194-019-00549-z |
| Al Khalifah, Khaled; Davidson, Rob; Zhou, Abel  | Using aluminum for scatter control in mammography: preliminary work using measurements of CNR and FOM   | 3           | 2020             | 13     | 1     | 37         | 44       | 10.1007/s12194-019-00545-3 |
| Goto, Masami; Hagiwara, Akifumi; Kato, Ayumi; Fujita, Shohei; Hori, Masaaki; Kamagata, Koji; Aoki, Shigeki; Abe, Osamu; Sakamoto, Hajime; Sakano, Yasuaki; Kyogoku, Shinsuke; Daida, Hiroyuki | Effect of changing the analyzed image contrast on the accuracy of intracranial volume extraction using Brain Extraction Tool 2                                      | 3           | 2020             | 13     | 1     | 76         | 82       | 10.1007/s12194-019-00551-5 |

|  |  |   |      |    |   |     |     |                            |
|--|--|---|------|----|---|-----|-----|----------------------------|
| Shibukawa, Shuhei; Niwa, Tetsu; Ohno, Naoki; Miyati, Tosiaki; Muro, Isao; Ogino, Tetsuo; Matsumae, Mitsunori; Imai, Yutaka             | Optimal strategy for measuring intraventricular temperature using acceleration motion compensation diffusion-weighted imaging                              | 3 | 2020 | 13 | 2 | 136 | 143 | 10.1007/s12194-020-00560-9 |
| Tien, Christopher J.; Chen, Zhe (Jay)  | A prototype open-ended multichannel intracavitary-interstitial hybrid applicator for gynecological high-dose-rate brachytherapy                            | 3 | 2020 | 13 | 2 | 187 | 194 | 10.1007/s12194-020-00567-2 |
| Matsubara, Keisuke; Ibaraki, Masanobu; Shidahara, Miho; Kinoshita, Toshibumi   | Iterative framework for image registration and partial volume correction in brain positron emission tomography   | 3 | 2020 | 13 | 4 | 348 | 357 | 10.1007/s12194-020-00591-2 |
| Wada, Yuya; Morishita, Junji; Yoon, Yongsu; Okumura, Miki; Ikeda, Noriaki  | A simple method for the automatic classification of body parts and detection of implanted metal using postmortem computed tomography scout view            | 3 | 2020 | 13 | 4 | 378 | 384 | 10.1007/s12194-020-00581-4 |
| Fukami, Mitsuha; Tamura, Kiyoshi; Nakamura, Yuya; Nakatsukasa, Syoichi; Sasaki, Masayuki   | Evaluating the effectiveness of a single CT method for attenuation correction in stress-rest myocardial perfusion imaging with thallium-201 chloride SPECT | 2 | 2020 | 13 | 1 | 20  | 26  | 10.1007/s12194-019-00540-8 |
| Matsuo, Takao; Matsuyama, Miwa; Nakatani, Ken; Mori, Naoe  | Evaluation of swallowing movement using ultrasonography  | 2 | 2020 | 13 | 1 | 62  | 68  | 10.1007/s12194-019-00547-1 |
| Nakamura, Tokiko; Shoichi, Suzuki; Takei, Yasutaka; Kobayashi, Masanao; Cruz, Vergil; Kobayashi, Ikuo; Asegawa, Satoshi; Kato, Kyoichi | A more accurate and safer method for the measurement of scattered radiation in X-ray examination rooms   | 2 | 2020 | 13 | 1 | 69  | 75  | 10.1007/s12194-019-00550-6 |
| Haseai, Shu; Arimura, Hidetaka; Asai, Kaori; Yoshitake, Tadamasu; Shioyama, Yoshiyuki  | Similar-cases-based planning approaches with beam angle optimizations using water equivalent path length for lung stereotactic body radiation therapy      | 2 | 2020 | 13 | 2 | 119 | 127 | 10.1007/s12194-020-00558-3 |
| Fawzy, Radwa; Abdel-Malek, Raafat; Metwaly, Mohamed; Abdelaziz, Omar; Seleem, Ahmed  | Evaluation of target volume margins for radiotherapy of prostate implanted with fiducial markers   | 2 | 2020 | 13 | 2 | 152 | 159 | 10.1007/s12194-020-00563-6 |
| Hamada, Keisuke; Fujibuchi, Toshioh; Yoshida, Naoki; Ohura, Hiroki   | Examination of a dose evaluation method for floor-mounted kV X-ray image-guided radiation therapy systems  | 2 | 2020 | 13 | 3 | 288 | 295 | 10.1007/s12194-020-00570-7 |
| Onodera, Shu; Lee, Yongbum; Tanaka, Yoshitaka  | Evaluation of dose reduction potential in scatter-corrected bedside chest radiography using U-net  | 2 | 2020 | 13 | 4 | 336 | 347 | 10.1007/s12194-020-00586-z |

|   |   |   |      |    |   |     |     |                            |
|---|---|---|------|----|---|-----|-----|----------------------------|
| Murase, Kenya   | New image-restoration method using a simultaneous algebraic reconstruction technique: comparison with the Richardson-Lucy algorithm   | 2 | 2020 | 13 | 4 | 365 | 377 | 10.1007/s12194-020-00595-y |
| Shinbo, Hirohiko; Tomioka, Satoshi; Ino, Toshihiko; Koyama, Keiko   | Systolic modified Look-Locker inversion recovery myocardial T1 mapping improves the accuracy of T1 and extracellular volume fraction measurements of patients with high heart rate or atrial fibrillation | 2 | 2020 | 13 | 4 | 405 | 413 | 10.1007/s12194-020-00594-z |
| Kato, Takahiro; Yamazaki, Yuhei; Sagara, Tatsuhiko  | A new concept for verifying the isocentric alignment of the proton-rotational gantry for radiation control  | 1 | 2020 | 13 | 1 | 45  | 51  | 10.1007/s12194-019-00544-4 |
| Sasaki, Motoharu; Ikushima, Hitoshi; Sugimoto, Wataru; Kitagawa, Kenta  | Long-term stability of a three-dimensional dose verification system   | 1 | 2020 | 13 | 1 | 83  | 91  | 10.1007/s12194-020-00554-7 |
| Chiba, Ayaka; Harada, Kohei; Ohashi, Yoshiya; Numasawa, Kanako; Imai, Tatsuya; Hayasaka, Shun   | Evaluation of computed tomography arterial portography scan timing using different bolus tracking methods   | 1 | 2020 | 13 | 1 | 92  | 97  | 10.1007/s12194-020-00556-5 |
| Takahashi, Yasuyuki; Hosokawa, Shota; Tsujiguchi, Takakiyo; Monzen, Satoru; Kanzaki, Takao; Shirakawa, Koji; Nemoto, Ayaka; Ishimura, Hayato; Oriuchi, Noboru | Time-related study on external exposure dose of 2-deoxy-2-[F-18]fluoro-d-glucose PET for workers' safety  | 1 | 2020 | 13 | 1 | 98  | 103 | 10.1007/s12194-019-00548-0 |
| Murakami, Rie; Katsuragawa, Shigehiko   | Development of a computer simulation technique for low-dose chest radiographs: a phantom study  | 1 | 2020 | 13 | 1 | 111 | 118 | 10.1007/s12194-020-00555-6 |
| Kato, Takahiro; Yamazaki, Yuhei; Kato, Ryohei; Komori, Shinya; Endo, Hiromitsu; Oyama, Sho; Sagara, Tatsuhiko   | End-to-end test to evaluate the comprehensive geometric accuracy of a proton rotating gantry using a cone-shaped scintillator screen detector   | 1 | 2020 | 13 | 2 | 144 | 151 | 10.1007/s12194-020-00562-7 |
| Hasegawa, Tomoyuki; Okamoto, Mio; Yamada, Takahiro; Ishizu, Hidetake; Mikamoto, Takahiro; Sato, Yasushi; Miyatake, Hiroki; Kikuchi, Kei; Inoue, Yusuke        | Traceable point-like Ge-68/Ga-68 source with a spherically symmetric positron absorber for PET scanners   | 1 | 2020 | 13 | 2 | 170 | 176 | 10.1007/s12194-020-00565-4 |
| Takatsu, Yasuo; Sagawa, Hajime; Nakamura, Masafumi; Suzuki, Yuichi; Miyati, Tosiaki   | Diffusion-weighted breast magnetic resonance imaging with distortion correction using non-rigid image registration: a clinical study  | 1 | 2020 | 13 | 2 | 210 | 218 | 10.1007/s12194-020-00568-1 |

|  |  |   |      |    |   |     |     |                            |
|--|--|---|------|----|---|-----|-----|----------------------------|
| Motegi, Kazuki; Matsutomo, Norikazu; Yamamoto, Tomoaki; Koizumi, Mitsuru   | Evaluation of bone metastasis burden as an imaging biomarker by quantitative single-photon emission computed tomography/computed tomography for assessing prostate cancer with bone metastasis: a phantom and clinical study | 1 | 2020 | 13 | 3 | 219 | 229 | 10.1007/s12194-020-00571-6 |
| Imae, Toshikazu; Haga, Akihiro; Watanabe, Yuichi; Takenaka, Shigeharu; Shiraki, Takashi; Nawa, Kanabu; Ogita, Mami; Takahashi, Wataru; Yamashita, Hideomi; Nakagawa, Keiichi; Abe, Osamu | Retrospective dose reconstruction of prostate stereotactic body radiotherapy using cone-beam CT and a log file during VMAT delivery with flattening-filter-free mode   | 1 | 2020 | 13 | 3 | 238 | 248 | 10.1007/s12194-020-00574-3 |
| Kuwabara, Natsumi; Takuwa, Haruko; Takeuchi, Megumi; Kawashima, Hiroko   | Can digital breast tomosynthesis improve identification of malignant calcifications?   | 1 | 2020 | 13 | 3 | 249 | 255 | 10.1007/s12194-020-00576-1 |
| Karimi, Milad; Ghazikhanlou-sani, Karim; Mehdizadeh, Ali Reza; Mostaghimi, Hesameddin  | Lead-free transparent shields for diagnostic X-rays: Monte Carlo simulation and measurements   | 1 | 2020 | 13 | 3 | 276 | 287 | 10.1007/s12194-020-00580-5 |
| Yoshida, Rei; Machida, Yoshio  | Single-plate method for practical modulation transfer function measurement in magnetic resonance imaging   | 1 | 2020 | 13 | 4 | 358 | 364 | 10.1007/s12194-020-00593-0 |
| Junios, J.; Irhas, I.; Novitrian, N.; Soediatmoko, E.; Haryanto, F.; Su'ud, Z.; Fielding, A. L.  | Characterization of Gamma Knife Perfexion (TM) source based on Monte Carlo simulation  | 1 | 2020 | 13 | 4 | 398 | 404 | 10.1007/s12194-020-00590-3 |

Data source: 引用文献検索, Web of Science, as of 29 August 2022