

# Nek Valous

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4317668/publications.pdf>

Version: 2024-02-01

43  
papers

1,916  
citations

331670

21  
h-index

330143

37  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2751  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Microglia Activation in the Midbrain of the Human Neonate: The Effect of Perinatal Hypoxic-Ischemic Injury. <i>Journal of Neuropathology and Experimental Neurology</i> , 2022, 81, 208-224.                    | 1.7  | 2         |
| 2  | Segmentation of biomedical images based on a computational topology framework. <i>Seminars in Immunology</i> , 2020, 48, 101432.  | 5.6  | 6         |
| 3  | Interrogating the microenvironmental landscape of tumors with computational image analysis approaches. <i>Seminars in Immunology</i> , 2020, 48, 101411.  | 5.6  | 5         |
| 4  | CCR5 status and metastatic progression in colorectal cancer. <i>Oncolmmunology</i> , 2019, 8, e1626193.   | 4.6  | 30        |
| 5  | Predicting survival from colorectal cancer histology slides using deep learning: A retrospective multicenter study. <i>PLoS Medicine</i> , 2019, 16, e1002730.  | 8.4  | 563       |
| 6  | Downregulation of SPARC Is Associated with Epithelial-Mesenchymal Transition and Low Differentiation State of Biliary Tract Cancer Cells. <i>European Surgical Research</i> , 2019, 60, 1-12.                   | 1.3  | 7         |
| 7  | Abstract A114: Omental fat in ovarian cancer induces metabolic and immune alterations. , 2019, , .  |      | 0         |
| 8  | Abstract A171: A fully human tissue-based ex vivo cell migration analysis model to study T-cell infiltration and distribution in colorectal cancer liver metastases. , 2019, , .                                |      | 0         |
| 9  | Image segmentation. , 2019, , 93-102.   |      | 0         |
| 10 | Large-scale database mining reveals hidden trends and future directions for cancer immunotherapy. <i>Oncolmmunology</i> , 2018, 7, e1444412.  | 4.6  | 11        |
| 11 | <scp>A</scp>strocytic glutamine synthetase is expressed in the neuronal somatic layers and downâ€regulated proportionally to neuronal loss in the human epileptic hippocampus. <i>Glia</i> , 2018, 66, 920-933. | 4.9  | 27        |
| 12 | Predicting the ripening of papaya fruit with digital imaging and random forests. <i>Computers and Electronics in Agriculture</i> , 2018, 145, 76-82.  | 7.7  | 121       |
| 13 | Multilacunarity as a spatial multiscale multi-mass morphometric of change in the meso-architecture of plant parenchyma tissue. <i>Chaos</i> , 2018, 28, 093110.   | 2.5  | 8         |
| 14 | Detailed resolution analysis reveals spatial T cell heterogeneity in the invasive margin of colorectal cancer liver metastases associated with improved survival. <i>Oncolmmunology</i> , 2017, 6, e1286436.    | 4.6  | 59        |
| 15 | Robust detection and segmentation of cell nuclei in biomedical images based on a computational topology framework. <i>Medical Image Analysis</i> , 2017, 38, 90-103.  | 11.6 | 28        |
| 16 | BMP-9 interferes with liver regeneration and promotes liver fibrosis. <i>Gut</i> , 2017, 66, 939-954.   | 12.1 | 107       |
| 17 | <i>In Silico</i> Modeling of Immunotherapy and Stroma-Targeting Therapies in Human Colorectal Cancer. <i>Cancer Research</i> , 2017, 77, 6442-6452.   | 0.9  | 90        |
| 18 | A frame-based ANN for classification of hyperspectral images: assessment of mechanical damage in mushrooms. <i>Neural Computing and Applications</i> , 2017, 28, 969-981.                                       | 5.6  | 25        |

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|----|--|------|-----------|
| 19 | Quality Evaluation of Meat Cuts. , 2016, , 175-193.  |      | 6         |
| 20 | Spatial intratumoral heterogeneity of proliferation in immunohistochemical images of solid tumors. Medical Physics, 2016, 43, 2936-2947.   | 3.0  | 11        |
| 21 | Abstract A102: The fat in ovarian cancer: Immune-dependent tumor-promoting effects. Cancer Immunology Research, 2016, 4, A102-A102.  | 3.4  | 2         |
| 22 | VISâ€“NIR spectroscopy as a process analytical technology for compositional characterization of film biopolymers and correlation with their mechanical properties. Materials Science and Engineering C, 2015, 56, 274-279. | 7.3  | 10        |
| 23 | Spatial organization and correlation properties quantify structural changes on mesoscale of parenchymatous plant tissue. Journal of Applied Physics, 2014, 115, .  | 2.5  | 3         |
| 24 | Tenderness prediction in porcine longissimus dorsi muscles using instrumental measurements along with NIR hyperspectral and computer vision imagery. Innovative Food Science and Emerging Technologies, 2013, 20, 335-342. | 5.6  | 32        |
| 25 | Multistage histopathological image segmentation of Iba1-stained murine microglia in a focal ischemia model: Methodological workflow and expert validation. Journal of Neuroscience Methods, 2013, 213, 250-262.            | 2.5  | 16        |
| 26 | Postischemic Brain Infiltration of Leukocyte Subpopulations Differs among Murine Permanent and Transient Focal Cerebral Ischemia Models. Brain Pathology, 2013, 23, 34-44.   | 4.1  | 128       |
| 27 | Semantic Focusing Allows Fully Automated Single-Layer Slide Scanning of Cervical Cytology Slides. PLoS ONE, 2013, 8, e61441.   | 2.5  | 32        |
| 28 | Image processing techniques for computer vision in the food and beverage industries. , 2012, , 97-129.   |      | 9         |
| 29 | Parsimonious classification of binary lacunarity data computed from food surface images using kernel principal component analysis and artificial neural networks. Meat Science, 2011, 87, 107-114.                         | 5.5  | 19        |
| 30 | Supervised neural network classification of pre-sliced cooked pork ham images using quaternionic singular values. Meat Science, 2010, 84, 422-430.   | 5.5  | 26        |
| 31 | Classification of pre-sliced pork and Turkey ham qualities based on image colour and textural features and their relationships with consumer responses. Meat Science, 2010, 84, 455-465.                                   | 5.5  | 47        |
| 32 | Identification of important image features for pork and turkey ham classification using colour and wavelet texture features and genetic selection. Meat Science, 2010, 84, 711-717.  | 5.5  | 22        |
| 33 | Detecting fractal power-law long-range dependence in pre-sliced cooked pork ham surface intensity patterns using Detrended Fluctuation Analysis. Meat Science, 2010, 86, 289-297.  | 5.5  | 11        |
| 34 | The use of lacunarity for visual texture characterization of pre-sliced cooked pork ham surface intensities. Food Research International, 2010, 43, 387-395.   | 6.2  | 29        |
| 35 | Emerging non-contact imaging, spectroscopic and colorimetric technologies for quality evaluation and control of hams: a review. Trends in Food Science and Technology, 2010, 21, 26-43.                                    | 15.1 | 40        |
| 36 | Multifractal Characterization of Apple Pore and Ham Fat-Connective Tissue Size Distributions Using Image Analysis. Food Engineering Series, 2010, , 599-616.   | 0.7  | 1         |

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|----|---|-----|-----------|
| 37 | Texture appearance characterization of pre-sliced pork ham images using fractal metrics: Fourier analysis dimension and lacunarity. Food Research International, 2009, 42, 353-362. | 6.2 | 48        |
| 38 | Colour calibration of a laboratory computer vision system for quality evaluation of pre-sliced hams. Meat Science, 2009, 81, 132-141.   | 5.5 | 198       |
| 39 | Analysis and classification of commercial ham slice images using directional fractal dimension features. Meat Science, 2009, 81, 313-320.   | 5.5 | 37        |
| 40 | Characterization of fat-connective tissue size distribution in pre-sliced pork hams using multifractal analysis. Meat Science, 2009, 83, 713-722.                                   | 5.5 | 21        |
| 41 | Performance of a double drum dryer for producing pregelatinized maize starches. Journal of Food Engineering, 2002, 51, 171-183.   | 5.2 | 54        |
| 42 | Heat transport to a starch slurry gelatinizing between the drums of a double drum dryer. Journal of Food Engineering, 2002, 54, 45-58.  | 5.2 | 21        |
| 43 | Hyperspectral Imaging Analysis and Applications for Food Quality. , 0, , .  |     | 4         |