

Sameer R Sonkusale

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

3,137
citations

31
h-index

51
g-index

184
ext. papers

3,917
ext. citations

5.1
avg, IF

5.78
L-index

#	Paper	IF	Citations
157	High speed terahertz modulation from metamaterials with embedded high electron mobility transistors. <i>Optics Express</i> , 2011 , 19, 9968-75	3.3	150
156	Smart Bandage for Monitoring and Treatment of Chronic Wounds. <i>Small</i> , 2018 , 14, e1703509	11	142
155	A Textile Dressing for Temporal and Dosage Controlled Drug Delivery. <i>Advanced Functional Materials</i> , 2017 , 27, 1702399	15.6	130
154	A toolkit of thread-based microfluidics, sensors, and electronics for 3D tissue embedding for medical diagnostics. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16039	7.7	124
153	Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications. <i>Advanced Healthcare Materials</i> , 2016 , 5, 711-9	10.1	122
152	A 60-dB Gain OTA Operating at 0.25-V Power Supply in 130-nm Digital CMOS Process. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 1609-1617	3.9	115
151	Biodegradable nanofibrous polymeric substrates for generating elastic and flexible electronics. <i>Advanced Materials</i> , 2014 , 26, 5823-30	24	100
150	Microwave diode switchable metamaterial reflector/absorber. <i>Applied Physics Letters</i> , 2013 , 103, 031902	3.4	97
149	Single and dual band 77/95/110 GHz metamaterial absorbers on flexible polyimide substrate. <i>Applied Physics Letters</i> , 2011 , 99, 264101	3.4	97
148	An Adaptive Resolution Asynchronous ADC Architecture for Data Compression in Energy Constrained Sensing Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 921-934	3.9	82
147	Dermal Patch with Integrated Flexible Heater for on Demand Drug Delivery. <i>Advanced Healthcare Materials</i> , 2016 , 5, 175-84	10.1	77
146	Highly stretchable and nonvolatile gelatin-supported deep eutectic solvent gel electrolyte-based ionic skins for strain and pressure sensing. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 601-608	7.1	73
145	Low cost smart phone diagnostics for food using paper-based colorimetric sensor arrays. <i>Food Control</i> , 2017 , 82, 227-232	6.2	65
144	Low-cost and cleanroom-free fabrication of microneedles. <i>Microsystems and Nanoengineering</i> , 2018 , 4,	7.7	60
143	Wireless Flexible Smart Bandage for Continuous Monitoring of Wound Oxygenation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015 , 9, 670-7	5.1	58
142	Experimental realization of a metamaterial detector focal plane array. <i>Physical Review Letters</i> , 2012 , 109, 177401	7.4	55
141	Oxygen-Generating Photo-Cross-Linkable Hydrogels Support Cardiac Progenitor Cell Survival by Reducing Hypoxia-Induced Necrosis. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1964-1971	5.5	51

140	CMOS Microelectrode Array for Electrochemical Lab-on-a-Chip Applications. <i>IEEE Sensors Journal</i> , 2009 , 9, 609-615	4	49
139	Paper based platform for colorimetric sensing of dissolved NH ₃ and CO ₂ . <i>Biosensors and Bioelectronics</i> , 2015 , 67, 477-84	11.8	43
138	Microfluidic optoelectronic sensor for salivary diagnostics of stomach cancer. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 465-71	11.8	42
137	Flexible and transparent gastric battery: energy harvesting from gastric acid for endoscopy application. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 292-6	11.8	41
136	Metamaterials for remote generation of spatially controllable two dimensional array of microplasma. <i>Scientific Reports</i> , 2014 , 4, 5964	4.9	38
135	A pH-Mediated Electronic Wound Dressing for Controlled Drug Delivery. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800396	10.1	37
134	Low-cost metamaterial-on-paper chemical sensor. <i>Optics Express</i> , 2017 , 25, 16092-16100	3.3	35
133	Thread-based multiplexed sensor patch for real-time sweat monitoring. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	35
132	Colorimetric Gas Sensing Washable Threads for Smart Textiles. <i>Scientific Reports</i> , 2019 , 9, 5607	4.9	34
131	Input-Feature Correlated Asynchronous Analog to Information Converter for ECG Monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011 , 5, 459-67	5.1	34
130	Hydrophobic Hydrogels: Toward Construction of Floating (Bio)microdevices. <i>Chemistry of Materials</i> , 2016 , 28, 3641-3648	9.6	34
129	A Novel BPSK Demodulator for Biological Implants. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 1478-1484	3.9	33
128	Kelvin probe microscopy and electronic transport measurements in reduced graphene oxide chemical sensors. <i>Nanotechnology</i> , 2013 , 24, 245502	3.4	32
127	A high-density nanowire electrode on paper for biomedical applications. <i>RSC Advances</i> , 2015 , 5, 8680-8687	3.7	31
126	A Compressed Sensing Analog-to-Information Converter With Edge-Triggered SAR ADC Core. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1135-1148	3.9	31
125	Dissolved ammonia sensing in complex mixtures using metalloporphyrin-based optoelectronic sensor and spectroscopic detection. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 976-983	8.5	29
124	BROADBAND MILLIMETERWAVE METAMATERIAL ABSORBER BASED ON EMBEDDING OF DUAL RESONATORS. <i>Progress in Electromagnetics Research</i> , 2013 , 142, 625-638	3.8	29
123	Washable Smart Threads for Strain Sensing Fabrics. <i>IEEE Sensors Journal</i> , 2018 , 1-1	4	29

122	A low-voltage high-speed terahertz spatial light modulator using active metamaterial. <i>APL Photonics</i> , 2016 , 1, 086102	5.2	28
121	All electronic approach for high-throughput cell trapping and lysis with electrical impedance monitoring. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 462-7	11.8	27
120	CMOS VLSI Potentiostat for Portable Environmental Sensing Applications. <i>IEEE Sensors Journal</i> , 2010 , 10, 820-821	4	27
119	SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. <i>IEEE Sensors Journal</i> , 2013 , 13, 202-210	4	26
118	Fully Digital BPSK Demodulator and Multilevel LSK Back Telemetry for Biomedical Implant Transceivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009 , 56, 714-718	3.5	26
117	A flow through device for simultaneous dielectrophoretic cell trapping and AC electroporation. <i>Scientific Reports</i> , 2019 , 9, 11988	4.9	25
116	Three dimensional printing of metamaterial embedded geometrical optics (MEGO). <i>Microsystems and Nanoengineering</i> , 2019 , 5, 16	7.7	24
115	Utilization of graphene electrode in transparent microwell arrays for high throughput cell trapping and lysis. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 625-30	11.8	24
114	DNA-decorated carbon-nanotube-based chemical sensors on complementary metal oxide semiconductor circuitry. <i>Nanotechnology</i> , 2010 , 21, 095504	3.4	24
113	Design, implementation, and field testing of a portable fluorescence-based vapor sensor. <i>Analytical Chemistry</i> , 2009 , 81, 5281-90	7.8	24
112	A three-dimensional electrochemical paper-based analytical device for low-cost diagnostics. <i>Analyst, The</i> , 2018 , 143, 1059-1064	5	23
111	Ingestible Osmotic Pill for In Vivo Sampling of Gut Microbiomes. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900053	6	22
110	A 0.5 V bulk-input OTA with improved common-mode feedback for low-frequency filtering applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 59, 83-89	1.2	21
109	Liquid gated three dimensional graphene network transistor. <i>Carbon</i> , 2014 , 79, 572-577	10.4	17
108	A 65 nm CMOS Digital Phase Imager for Time-Resolved Fluorescence Imaging. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 1731-1742	5.5	17
107	Loss compensation in metamaterials through embedding of active transistor based negative differential resistance circuits. <i>Optics Express</i> , 2012 , 20, 22406-11	3.3	17
106	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 926-934	2.6	16
105	Flexible 3D Graphene Transistors with Ionogel Dielectric for Low-Voltage Operation and High Current Carrying Capacity. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500355	6.4	16

104	Highly Flexible Transistor Threads for All-Thread Based Integrated Circuits and Multiplexed Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31096-31104	9.5	15
103	The heterogeneous integration of single-walled carbon nanotubes onto complementary metal oxide semiconductor circuitry for sensing applications. <i>Nanotechnology</i> , 2009 , 20, 225302	3.4	15
102	Multiplexed sensing based on Brownian relaxation of magnetic nanoparticles using a compact AC susceptometer. <i>Nanotechnology</i> , 2011 , 22, 085501	3.4	14
101	A High Dynamic Range CMOS Image Sensor for Scientific Imaging Applications. <i>IEEE Sensors Journal</i> , 2009 , 9, 1209-1218	4	14
100	Microfluidic optoelectronic sensor based on a composite halochromic material for dissolved carbon dioxide detection. <i>Sensors and Actuators B: Chemical</i> , 2014 , 194, 404-409	8.5	13
99	A complete data and power telemetry system utilizing BPSK and LSK signaling for biomedical implants. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 3216-9	0.9	13
98	. <i>IEEE Sensors Journal</i> , 2015 , 15, 3500-3506	4	11
97	Three dimensional graphene transistor for ultra-sensitive pH sensing directly in biological media. <i>Analytica Chimica Acta</i> , 2016 , 934, 212-7	6.6	11
96	Washable thread based strain sensor for smart textile 2017 ,		11
95	Wireless multi-level terahertz amplitude modulator using active metamaterial-based spatial light modulation. <i>Optics Express</i> , 2016 , 24, 14618-31	3.3	11
94	Cost-effective Fabrication of Chitosan Microneedles for Transdermal Drug Delivery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 5737-5740	0.9	11
93	Combined optical and electronic paper-nose for detection of volatile gases. <i>Analytica Chimica Acta</i> , 2018 , 1034, 128-136	6.6	11
92	Dielectrophoretic lab-on-CMOS platform for trapping and manipulation of cells. <i>Biomedical Microdevices</i> , 2016 , 18, 6	3.7	10
91	Heterogeneous metal-oxide nanowire micro-sensor array for gas sensing. <i>Materials Research Express</i> , 2014 , 1, 025002	1.7	10
90	A flexible pH sensing smart bandage with wireless CMOS readout for chronic wound monitoring 2017 ,		10
89	A 0.5V Bulk-Input Operational Transconductance Amplifier with Improved Common-Mode Feedback 2007 ,		10
88	. <i>IEEE Sensors Journal</i> , 2020 , 20, 3249-3256	4	10
87	A Time-Mode Translinear Principle for Nonlinear Analog Computation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 2187-2195	3.9	9

86	High-throughput heterogeneous integration of diverse nanomaterials on a single chip for sensing applications. <i>PLoS ONE</i> , 2014 , 9, e111377	3.7	9
85	Fundamental performance limits and scaling of a CMOS passive double-balanced mixer 2008 ,		9
84	True background calibration technique for pipelined ADC. <i>Electronics Letters</i> , 2000 , 36, 786	1.1	9
83	Reel-to-reel fabrication of strain sensing threads and realization of smart insole. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111741	3.9	9
82	pH sensing threads with CMOS readout for Smart Bandages 2017 ,		8
81	Low-cost paper-based electrochemical sensors with CMOS readout IC 2014 ,		8
80	An improved pH mapping bandage with thread-based sensors for chronic wound monitoring 2018 ,		7
79	Smart flexible wound dressing with wireless drug delivery 2015 ,		7
78	Interferometric direction finding with a metamaterial detector. <i>Applied Physics Letters</i> , 2013 , 103, 254103	3.4	7
77	A CMOS imager with digital phase readout for fluorescence lifetime imaging 2011 ,		7
76	. <i>IEEE Access</i> , 2020 , 8, 117122-117132	3.5	7
75	All-Around Package Security Using Radio Frequency Identification Threads 2018 ,		7
74	Broadband wireless radio frequency power telemetry using a metamaterial resonator embedded with non-foster impedance circuitry. <i>Applied Physics Letters</i> , 2015 , 106, 203504	3.4	6
73	Influence of Hydrogen Bond Donor Identity and Intentional Water Addition on the Properties of Gelatin-Supported Deep Eutectic Solvent Gels. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5986-5992	3.4	6
72	Disposable colorimetric geometric barcode sensor for food quality monitoring 2017 ,		6
71	Wireless flexible smart bandage for continuous monitoring of wound oxygenation 2014 ,		6
70	Low-Voltage Switchable Microplasma Arrays Generated Using Microwave Resonators. <i>IEEE Electron Device Letters</i> , 2013 , 34, 804-806	4.4	6
69	Ultra low power PVT independent sub-threshold gm-C filters for low frequency biomedical applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2011 , 66, 285-291	1.2	6

68	Carbon nanotube and graphene based gas micro-sensors fabricated by dielectrophoresis on silicon 2010,		6
67	Electronic nose based on graphene, nanotube and nanowire chemiresistor arrays on silicon 2011,		6
66	An Area-Efficient and Low-Power Logarithmic A/D Converter for Current-Mode Sensor Array. <i>IEEE Sensors Journal</i> , 2009 , 9, 2042-2043	4	6
65	Design and implementation of magnetically-tunable quad-band filter utilizing split-ring resonators at microwave frequencies. <i>Scientific Reports</i> , 2020 , 10, 1050	4.9	5
64	Thread-based wearable devices. <i>MRS Bulletin</i> , 2021 , 46, 502-511	3.2	5
63	High Resolution Frequency Measurement Techniques for Relaxation Oscillator Based Capacitive Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 13394-13404	4	5
62	. <i>IEEE Sensors Journal</i> , 2016 , 16, 5243-5248	4	5
61	Origami microfluidic paper-analytical-devices (omPAD) for sensing and diagnostics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 307-310	0.9	4
60	Ingestible Osmotic Pill for In Vivo Sampling of Gut Microbiomes. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1970052	6	4
59	A time-mode translinear principle for implementing analog multiplication 2014,		4
58	Low-cost metamaterial-on-paper chemical sensor 2017,		4
57	Embedded HEMT/metamaterial composite devices for active terahertz modulation 2010,		4
56	Low Power Asynchronous Data Acquisition Front End for Wireless Body Sensor Area Network 2011,		4
55	. <i>IEEE Sensors Journal</i> , 2010 , 11, 16-22	4	4
54	A Wireless Data and Power Telemetry System Using Novel BPSK Demodulator for Non-Destructive Evaluation of Structures 2007,		4
53	A Novel Low Power BPSK Demodulator 2007,		4
52	CMOS microcavity arrays for single-cell electroporation and lysis. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111931	11.8	4
51	A low noise current readout architecture with 160dB transimpedance gain and 1.3MHz bandwidth. <i>Microelectronics Journal</i> , 2021 , 108, 104984	1.8	4

50	On Quantized Analog Compressive Sensing Methods for Efficient Resonator Frequency Estimation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 4556-4565	3.9	3
49	Smart bandages for chronic wound monitoring and on-demand drug delivery 2017 ,		3
48	CMOS luminescence lifetime sensor for white LED multi-spectral characterization 2017 ,		3
47	A Compressed sensing analog-to-information converter with edge-triggered SAR ADC Core 2012 ,		3
46	Paper-based super-capacitor using micro and nano particle deposition for paper-based diagnostics 2013 ,		3
45	A low-power asynchronous ECG acquisition system in CMOS technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5262-5	0.9	3
44	A miniaturized AC magnetic susceptometer for detecting biomolecules tagged to magnetic nanoparticles 2009 ,		3
43	A CMOS integrated thermal sensor based on Single-Walled Carbon Nanotubes 2008 ,		3
42	pH-Sensing Hydrogel Fibers: Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications (Adv. Healthcare Mater. 6/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 624-624	10.1	3
41	Wearable Flexible Touch Interface Using Smart Threads 2018 ,		3
40	A CMOS Luminescence Intensity and Lifetime Dual Sensor Based on Multicycle Charge Modulation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 677-688	5.1	3
39	Thermo-Mechanically Trained Shape Memory Alloy for Temperature Recording With Visual Readout 2021 , 5, 1-4		3
38	CMOS dielectrophoretic Lab-on-Chip platform for manipulation and monitoring of cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7530-3	0.9	2
37	A new GaN HEMT nonlinear model for evaluation and design of 1W watt power amplifiers 2012 ,		2
36	0.5 μ W Sub-Threshold Operational Transconductance Amplifiers Using 0.15 μ m Fully Depleted Silicon-on-Insulator (FDSOI) Process. <i>Journal of Low Power Electronics and Applications</i> , 2012 , 2, 155-167 ^{1.7}		2
35	A 22-bit 110ps time-interpolated Time-to-Digital Converter 2012 ,		2
34	Modeling, simulation and implementation of a passive mixer in 130nm CMOS technology and scaling issues for future technologies 2008 ,		2
33	Metamaterial absorber for THz polarimetric sensing 2018 ,		2

32	3D printed metamaterials for high-frequency applications 2019 ,		2
31	A 3D Printed Robotic Finger with Embedded Tactile Pressure and Strain Sensor 2020 ,		2
30	An Approach for a Wide Dynamic Range Low-Noise Current Readout Circuit. <i>Journal of Low Power Electronics and Applications</i> , 2020 , 10, 23	1.7	2
29	Head motion classification using thread-based sensor and machine learning algorithm. <i>Scientific Reports</i> , 2021 , 11, 2646	4.9	2
28	Precise time mode multiplier using digital primitives and passive components 2016 ,		1
27	IN-SITU LARGE AREA FABRICATION OF METAMATERIALS ON ARBITRARY SUBSTRATES USING PAINT PROCESS. <i>Progress in Electromagnetics Research</i> , 2013 , 141, 117-133	3.8	1
26	Electronic Transport and Doping Effects in Reduced Graphene Oxide Measured by Scanning Probe Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1505, 1		1
25	Bandwidth tunable amplifier for recording biopotential signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 662-5	0.9	1
24	A PVT independent subthreshold constant-Gm stage for very low frequency applications 2008 ,		1
23	Current-mode readout circuits with pixel-level logarithmic ADC for IR FPA applications 2008 ,		1
22	Sensors for Vital Signs: ECG Monitoring Systems 2022 , 221-243		1
21	Battery-Free Shape Memory Alloy Antennas for Detection and Recording of Peak Temperature Activity. <i>Crystals</i> , 2022 , 12, 86	2.3	1
20	Hard polymeric porous microneedles on stretchable substrate for transdermal drug delivery.. <i>Scientific Reports</i> , 2022 , 12, 1853	4.9	1
19	Wireless Temperature Monitoring With Shape Memory Alloy-Based Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 313-316	3.8	1
18	A 10-Bit Current Output DAC With Active Resistive Load Interpolation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1803-1806	3.5	1
17	Flexible thread-based electrochemical sensors for oxygen monitoring. <i>Analyst, The</i> , 2021 , 146, 2983-2990		1
16	Rapid cleanroom-free fabrication of thread based transistors using three-dimensional stencil-based patterning. <i>Flexible and Printed Electronics</i> , 2021 , 6, 015007	3.1	1
15	A Computationally Efficient Visual Saliency Algorithm Suitable for an Analog CMOS Implementation. <i>Neural Computation</i> , 2018 , 30, 2439-2471	2.9	0

- 14 Sutures for the wireless sensing of deep wounds. *Nature Biomedical Engineering*, **2021**, 5, 1113-1114 19 0
- 13 Design and Development of a Robotic Hand with Embedded Sensors Using 3D Printing Technology **2021**, 6, 273 0
- 12 CMOS Luminescence Imager With Ambient Light Compensation and Lifetime to Frequency Conversion. *IEEE Transactions on Biomedical Circuits and Systems*, **2018**, 12, 1038-1045 5.1
- 11 CMOS Fluorometer for Oxygen Sensing. *IEEE Sensors Journal*, **2012**, 12, 2506-2507 4
- 10 Robust error correction in infofuses. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2012**, 468, 361-377 2.4
- 9 Sensors for Vital Signs: ECG Monitoring Systems **2018**, 1-23
- 8 High-Speed Terahertz Modulation Using Active Metamaterial **2017**, 67-82
- 7 A Terahertz Spatial Light Modulator for Imaging Application **2017**, 83-101
- 6 Opportunities for ionic liquid/ionogel gating of emerging transistor architectures. *Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics*, **2021**, 39, 011001 1.3
- 5 Data Converters for Wearable Sensor Applications **2022**, 87-119
- 4 Low-Noise CMOS Signal Conditioning Circuits **2022**, 63-86
- 3 Compressed Sensing **2022**, 155-175
- 2 Materials and Processing for Flexible Bioelectronics **2022**, 1-25
- 1 Sensors and Platforms for Flexible Bioelectronics **2022**, 27-62