Topical overview

Each article in the EMF-portal is assigned to one research topic. These research topics are further assigned to broader categories like 'medical/biological', 'epidemiological', 'electromagnetic interference', 'technical/dosimetric', 'medical applications', 'electrical injuries and electrical stimulation', or 'none of the above'.

Each research topic is listed below with its associated key words and the number of publications. View articles of a particular research topic by clicking on the shortcut.

Important notice: The following topics do not necessarily contain all publications concerning the described criteria. Due to the fact that many publications deal with a variety of topics from different angles, articles are classified according to the **primary**topic.

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82 topics in the EMF-Portal

Topic	Keywords	Number
medical/biological		
BBB	blood brain barrier	71
BEH	behavior, cognition, behavior alterations	319
BMB	membranes, ion channels, Na+,K+, Cl-channels, organelles	172
CAL	calcium, influx, efflux	151
CEF	cell proliferation, cell characteristics, non-malignant growth of cells (excluding tumour cell lines), apoptosis	566
CNS	central nervous system, brain, EEG, neurotransmitters, neurophysiological effects, sleep	597
CVS	cardiovascular system, blood pressure, heart rate, ECG	186
CVT	cell proliferation (of cancer cells), in vitro, cells, cell cultures, tumor cell lines	251
CVV	cancer, tumor, in vivo, human, animal	164
EHM	heart muscle excitation	11
EMU	muscle excitation (excluding heart)	34
ENA	enzyme activity	179
END	endocrinologic processes, hormones	88
EOE	auditory system, ears	95
EOF	plants	199
EOI	insects, invertebrates	106
EOM	microorganisms, bacteria, viruses	256

EOR	organs, tissues, physiology	188
ESK	skin	66
EYE	eyes	93
FER	fertility, ovaries, testes, testicle	169
GEN	genotoxicity, gene expression, chromosome changes, RNA synthesis	563
GRO	growth, development (of higher organisms), body weight, organ weight	77
HCS	blood, hematopoietic cell system, haematopoiesis, blood flow, blood circulation	159
HSP	heat shock proteins	70
HTM	hyperthermia, temperature effects, thermoregulation	219
HYP	hypersensitivity, hypersensibility, human, animal	93
IMM	immune system	168
IPA	productivity, animal	14
MEL	melatonin, circadian rhythm, day-night-cycle, pineal gland	142
MET	cell metabolism, oxidative stress	162
MOR	mortality, in experiments, (not epidemiology)	28
MOS	molecular structures, molecules	122
MPR	electrical/dielectrical properties, tissue	177
MUP	multiple parameters	100
NPN	neurons, peripheral nerves, not brain	195
OOS	olfactory organ, nose	4
OPI	opioides, derivates	49
ORI	magnetoreception, field perception, orientation in field of higher and lower organisms	145
PAN	pain, analgesia, nociception	77
TER	teratogenicity, embryogenesis, malformations	267
VCS	visual channel, phosphenes	47
	total	**6839**

epidemiological

EPS	epidemiologicaly, case control study, cohort study, odds ratio, relative risk	736
EAE	exposure assessment, methods, validation, bias, confounder	236
	total	**972**

electromagnetic interference

CPM	cardiac implants, (cardiac pacemaker, cardioverter defibrillator)		363
IMP	other electronic implants, passive implants		127
IMD	medical devices		114
		total	**604**

technical/dosimetric

ECE	dosimetry, field conditions, SAR		1601
MEC	interaction mechanisms, physical, biological, theoretical aspects		1030
PTM	methods, procedures, techniques		451
IPB	inactivation processes of biological material		50
		total	**3132**

medical applications

TMS	transcranial stimulation, TMS, rTMS, tDCS		433
THR	therapeutic use		912
DIA	diagnosis		49
		total	**1394**

electrical injuries and electrical stimulation

SCS	case studies, electrical injuries		415
SCL	clinical studies, electrical injuries		163
SEP	epidemiological studies, electrical injuries		88
SAN	electrocution of animals		40
SDI	diagnostics of electrical injuries		44
STH	therapy of electrical injuries		120
STB	therapy by current application, electrostimulation		55
SST	therapy by tDCS application		61
SET	experimental studies		406
SRE	reviews		124
SBA	basics		115
SPR	prevention, safety		64
SRG	laws, standards, guidelines		2
SSR	statements, reports		3
SDO	dosimetry		43

SME	mechanisms of interaction		7
SLE	comments, letters to the editor		132
SFL	foreign language (not english or german)		122
		total	**2004**

none of the above

SUR	reviews, surveys, summaries		1488
BAS	basics, introductions, case reports		497
IRG	laws, recommendations, guidelines		147
RIS	risk communication, risk perception		97
SIR	statements, reports, information material		161
COM	threshold discussion		143
CLR	comments, letters to the editor, statements/opinions of individual authors		1046
ERR	errata		62
PFL	publication not English/German		1227
TMP	ordered literature		207
		total	**5075**
		total overall	**20020**

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